

FEDERAL WHITE - COLLAR WORKERS

Their Occupations and Salaries
June 1951

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UNITED STATES DEPARTMENT OF LABOR

Martin P. Durkin, *Secretary*

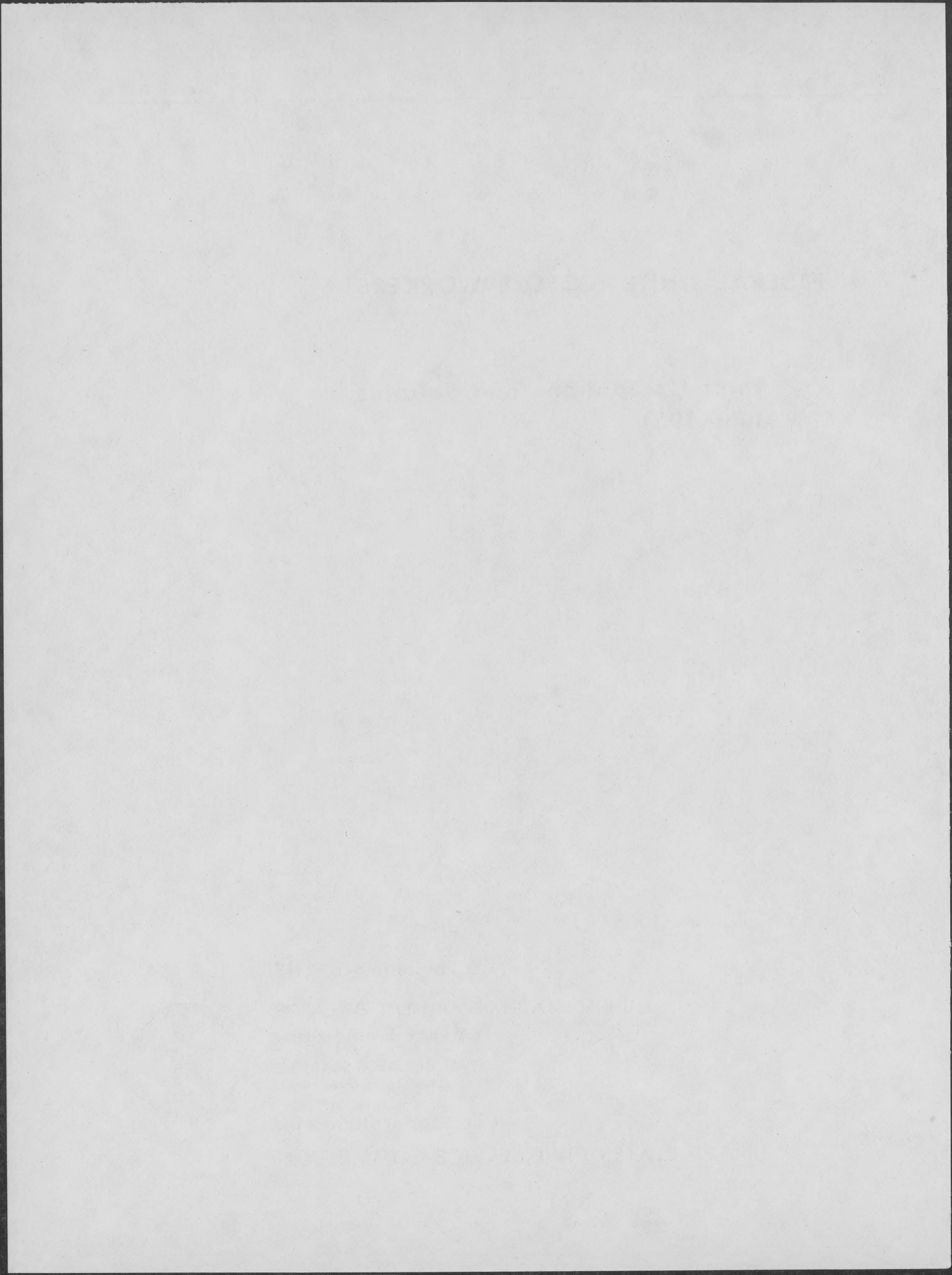
BUREAU OF LABOR STATISTICS

Ewan Clague, *Commissioner*

in cooperation with

UNITED STATES CIVIL SERVICE COMMISSION





Letter of Transmittal

UNITED STATES DEPARTMENT OF LABOR,
BUREAU OF LABOR STATISTICS,
Washington, D. C., January 21, 1953.

THE SECRETARY OF LABOR:

I have the honor to transmit herewith a report on the occupations and salaries of Federal white-collar workers. The data are from a special survey of Federal employment conducted by the United States Civil Service Commission. The text and summary tables, prepared in the Bureau of Labor Statistics, were first presented as an article in the November 1952 issue, *Monthly Labor Review*, and are reprinted from that publication, with additional appendix tables.

The report was prepared in the Bureau's Division of Manpower and Employment Statistics by Cora E. Taylor under the direction of Helen Wood. The Bureau wishes to acknowledge the generous assistance and cooperation of members of the Federal Employment Statistics Staff of the Civil Service Commission.

EWAN CLAGUE, *Commissioner.*

Hon. MARTIN P. DURKIN,
Secretary of Labor.

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Federal White-Collar Workers

Their Occupations and Salaries, June 1951

THE FEDERAL GOVERNMENT, in discharging its diversified responsibilities for public service, employed around 900,000 white-collar workers on June 30, 1951. These workers were employed in more than 450 different administrative, professional, and technical occupations. They comprised about 40 percent of all civilian employees in the Government's Executive Branch in continental United States,¹ and were located in all parts of the country. Only about a fifth were stationed in Washington, D. C. Among the 60 Federal agencies having white-collar workers on their payrolls, the Department of the Army and the Veterans Administration employed the largest numbers.

Many Federal employees are in occupations, such as the stenographer and typist categories, which are common to all agencies and comparable to similar positions in private industry. Certain other jobs are found only in one or two Departments or Bureaus and are, in some cases, unique to Government—for example, those of lighthouse engineer and patent and trade-mark interference examiner. The largest single occupational category in June 1951 was clerk-typist, with about 111,000 workers. On the other hand, some occupational series including zoology, ethnology, meat technology, and traffic engineering, had fewer than 25 persons each.

The effect of the defense program on Federal employment is evident when 1951 and 1947 employment data are compared. The total number of white-collar workers increased by a third over the 4-year period. Growth in such occupations as

meteorology, physics, electronics, mathematics, cartography, engineering, and various inspection functions was a direct result of expanded defense activities.

Annual salaries of all white-collar Federal employees averaged \$3,700 as of June 30, 1951. However, salaries varied considerably by occupation. In a few small professional and administrative categories they averaged more than \$8,000 annually, but in some of the largest occupations, such as typist and hospital attendant, the averages were under \$2,600.

Data presented in this report are from a special occupational survey of Federal employment made by the United States Civil Service Commission, as of June 30, 1951,² and from hitherto unpublished information obtained by a similar survey made in 1947. Results of an earlier survey on employment in the Government, by occupation, made in 1938, were published in the January 1941 Monthly Labor Review.

¹ The total given excludes "blue-collar" employees in crafts (trade and manual), protective, and custodial positions, and employees whose wages are fixed by wage boards and who work mainly at military installations.

² In the 1951 survey, the Civil Service Commission requested all Federal agencies to report the number of full-time employees who were on their rolls in Classification Act positions inside continental United States on June 30, 1951. Employees were reported by series and grade, by the 60 agencies which had such employees. Reports were also requested for large white-collar groups not subject to the Classification Act of 1949. The survey did not cover postal workers, but only about 10,000 other employees in full-time white-collar positions were omitted. Among the excluded groups were Foreign Service employees stationed temporarily in this country; teachers at Howard University, Columbia Institute for the Deaf, and the military academies; White House and National Park Police; milk market inspectors of the Agriculture Department; commissioned officers of the Coast and Geodetic Survey; and agency and bureau heads.

TABLE 1.—*Distribution of Federal white-collar employees in continental United States, by major occupational group, June 30, 1947 and 1951*¹

Occupational group	1947		1951			
	Total		Total		In Wash- ington, D. C.	Outside Wash- ington, D. C.
	Num- ber	Per- cent	Num- ber	Per- cent		
All groups.....	680,134	100.0	905,902	100.0	189,721	716,181
General administrative, clerical, and office services.....	366,917	53.9	446,796	49.3	96,808	349,988
Accounting and fiscal.....	75,688	11.1	77,428	8.5	16,594	60,834
Engineering.....	51,098	7.5	71,260	7.9	13,109	58,151
Medical, hospital, dental, and public health.....	36,739	5.4	66,467	7.4	3,657	62,810
Inspection and investigation.....	23,772	3.5	57,210	6.3	1,982	55,228
Legal and kindred.....	29,126	4.3	29,127	3.2	8,832	20,295
Biological sciences.....	17,762	2.6	25,988	2.9	2,115	23,873
Physical sciences.....	11,997	1.8	21,595	2.4	5,658	15,937
Business and industry.....	9,124	1.3	21,318	2.4	5,309	16,009
Mathematics and statistics.....	10,373	1.5	18,308	2.0	11,870	6,438
Personnel administration and industrial relations.....	15,453	2.3	17,417	1.9	6,059	11,358
Mechanic.....	2,215	.3	11,176	1.2	1,907	9,269
Social science, psychology, and welfare.....	8,407	1.2	10,954	1.2	6,020	4,934
Education.....	5,167	.8	8,172	.9	799	7,373
Fine and applied arts.....	3,268	.5	5,278	.6	1,632	3,646
Library and archives.....	2,118	.3	3,054	.4	1,402	1,652
Veterinary science.....	1,765	.3	1,864	.2	53	1,811
Copyright, patent, and trade-mark.....	1,015	.2	1,164	.1	1,098	66
Miscellaneous occupations, not elsewhere classified.....	8,130	1.2	11,326	1.2	4,817	6,509

¹ Figures for 1947 and 1951 are not strictly comparable. See text footnote 4, page 3.

Occupational Distribution

Positions in the Federal Service are classified according to the field of work and also according to the grade level of the position. The Civil Service Commission has set up occupational categories or series, which have titles that refer to the field of work—for example, labor economist or engineering aid. Each series includes a number of grades of positions, based on the difficulty and responsibility of the work. These grades may be thought of as steps in the usual line of promotion. Jobs of comparable difficulty and responsibility have the same grade in all series.

The Civil Service Commission has also arranged the 450 white-collar series in 19 major occupational groups, which represent broad areas of related work. Statistics are here presented for these major groups and for some of the more important occupational series.

About half of all the Government's white-collar employees were classified in the general administrative, clerical, and office services group (see table 1). This group included the army of typists, stenographers, and secretaries—number-

ing more than 200,000 in 1951. Also included were more than 72,000 workers engaged in procurement, property and stock control, storage, and other activities having to do with the provision of supplies for the Government, and nearly 30,000 operators of tabulating, bookkeeping, and other office machines. At least 10,000 employees in the group operated communication equipment, chiefly as telephone operators and telegraphic typewriter operators.

The accounting and fiscal group, the second largest major occupational group, included only 8 percent of all Federal white-collar employees in 1951. More than a third of the accounting and fiscal workers had clerical jobs in the series designated as "accounting and fiscal clerical"; they performed duties pertaining to the receipt and disbursement of funds collected, appropriated, or held in trust by the Federal Government. The next largest single accounting and fiscal occupation—internal revenue agent—included 7,704 employees (table 2). The major group also included about 8,500 other professional accountants distributed among various occupational categories.

Engineering and related occupations formed the third largest major group. About 47,000 employees in this group were in professional engineering categories, and the remaining 24,000 were in other types of positions, notably that of engineering aid. Professional engineers—the largest professional group in Government employment—comprised about an eighth of all such engineers in the country. The numbers employed in different engineering specialties were as follows:

	Number of engineers
Civil.....	6,265
Mechanical.....	6,041
Electronic.....	5,421
Electrical.....	4,676
Construction.....	3,450
General.....	2,773
Hydraulic.....	1,949
Surveying and cartographic.....	1,632
Ordnance.....	1,436
Naval architecture.....	1,239
Chemical.....	1,093
Other.....	10,711

The medical, hospital, dental, and public-health group likewise included both professional and subprofessional personnel. Physicians, dentists,

nurses, and other professional workers represented only about 42 percent, while hospital attendants made up a slightly higher proportion (44 percent). Technicians of various types constituted the remainder of the group.

Government inspectors and investigators comprised the fifth largest among the major occupational groups shown in table 1. Included were employees in such specialties as tax collection; criminal investigation; construction, customs, and food inspection; as well as several thousand general investigators.

All other major occupational groups together constituted only about a fifth of all white-collar workers in the agencies covered by the survey. However, many of the Government's professional workers were in these broad occupational categories. The physical sciences group had the largest number of professional employees (16,346), headed by chemistry, with 4,346 workers, and physics, with 3,067. The Federal Government employed about a fifth of all physicists in the country; on the other hand, less than 1 chemist in 20 was in Federal employment. Other important physical-science occupations included electronic research, meteorology, and geology. Sizable numbers of biological scientists (15,300), lawyers (11,784), and social scientists (9,693) were also employed. Of extreme importance in carrying on the work of the Government, but numbering only from 1,000 to 2,000 in each case, were such workers as mathematicians, statisticians, librarians, and veterinarians. Workers in all professional occupations taken together totaled 161,500 in 1951—18 percent of all Federal white-collar employees.

Comparison of 1951 and Earlier Data

Employment in the Federal Government varied considerably from the late 1930's to 1951, primarily in response to changes in the international situation. Total civilian employment in the Executive Branch in continental United States rose from less than a million before 1940 to an all-time high of about 3 million in June 1943, the middle of World War II. A postwar decline in employment continued until December 1947, when there were 1,766,000 Federal employees. Between that date and June 1950, employment fluctuated between 1.8 and 1.9 million. After the attack on

Korea and initiation of the current defense program, it began to rise again—reaching 2,313,000 by June 1951.³

During this period, three surveys of the occupations of Government workers were conducted—for 1938, 1947,⁴ and 1951. So many changes in occupational classifications were made after 1938, however, that only limited comparisons are possible between the 1938 data and the two later surveys. Occupations for which approximately comparable figures are available for the three periods include the following:

	1938	Employment in— 1947	1951
Chemists and metallurgists—	1, 455	3, 254	4, 871
Engineers, professional—	19, 820	32, 960	46, 686
Librarians—	605	1, 175	1, 719
Social and welfare workers—	755	1, 499	1, 896
Stenographers, typists, and secretaries—	53, 200	152, 645	200, 859

From 1938 to 1947, employment in all but one of these occupations expanded at about the same rate as total civilian Government employment—around 100 percent. The exception was the stenographer, typist, and secretary group, in which employment tripled from 1938 to 1947. The annual rate of growth in the other four occupations was greater in the 4-year period 1947 to 1951 than in the earlier 9-year period.

Although the 1947 survey differs slightly in coverage from the 1951 survey, an analysis of employment changes in major occupational groups and in some specific occupational categories is possible. The total number of white-collar employees increased by nearly a third over the 4-year period, as a result of the defense program. During the same period, total white-collar employment in the Defense Department rose 73 percent.

³ U. S. Civil Service Commission, Monthly Reports of Employment.

⁴ The 1938 study was made as of December 31, 1938. It was based on a 25-percent sample of service records of Federal employees on file at the Civil Service Commission. All positions were divided into 8 major occupational groups and 117 occupations or minor groups, which included postal employees and trade, manual, and service workers. Results of the study were published in the January 1941 issue of the Monthly Labor Review.

The June 1947 survey, hitherto unpublished, was made by the Civil Service Commission to determine its examining workload in converting from war-service appointments to permanent civil-service appointments at the end of World War II. While the 1947 survey did not have exactly the same coverage as the 1951 survey, it is believed the figures from the two studies are reasonably comparable for most occupational series. Chief differences in coverage are that employees of TVA, AEC, and the Department of Medicine and Surgery of the Veterans Administration were excluded from the 1947 survey. Some occupational groups were, therefore, more affected than others; for example, the numbers of engineering and medical employees as shown by the 1947 survey were probably understated to a greater extent than employment in other groups.

The occupations which showed the greatest numerical increase in employment from 1947 to 1951 were those in the general administrative and clerical category—an addition of about 80,000 employees. Because of the large number of administrative and clerical workers in 1947, this rise in employment was only about 22 percent—smaller proportionally than the increase in all Federal white-collar employment. Administrative and clerical workers constituted 54 percent of the total number of white-collar employees in 1947, but only 49 percent in 1951 (table 1).

Some of the other major groups, which have fewer workers and are made up largely of defense-connected occupations, had a much greater rate of growth over the 4-year period. In physical-science occupations, for example, employment increased by 80 percent, with the greatest rise in the fields of meteorology and physics. Much of the increased employment in inspection and investigation occupations also can be accounted for by defense-connected activities. This group, accounting for only 3.5 percent of all white-collar employees in 1947, claimed 6.3 percent of the total number in 1951. The rise was due primarily to increased employment in tax collection, criminal investigation, immigration patrol inspection, and inspection of food, construction, and ammunition. Employment in the business and industry group also rose considerably, chiefly from the addition of many industrial and production specialists and commodity-industry analysts in defense agencies such as the National Production Administration and the Office of Price Stabilization.

Location of Employment

Four out of every five Federal white-collar workers in June 1951 were located outside the Washington, D. C. area.⁵ In five of the major occupational groups—medical, hospital, dental and public-health services; inspection and investigation; veterinary science; biological sciences; and education—over 90 percent of the workers were employed outside metropolitan Washington. In only three broad occupational categories—the social science, psychology and welfare group, the mathematics and statistics group, and the very

small copyright, patent, and trade-mark group—were the majority of workers in the Washington area.

Agency Distribution

The predominance of defense activities in the work of the Federal Government is indicated by the relative numbers of workers employed in different agencies in mid-1951. More than 40 percent of all white-collar employees were in the Department of Defense and its three component departments. The Department of the Army, which alone employed 22 percent, was by far the largest employing agency. The Veterans Administration was next largest followed in order by the Departments of the Navy, the Treasury, the Air Force, and Agriculture.

Certain occupations, mainly those of an administrative or clerical nature, are common to all Government agencies. Every agency has "house-keeping" functions such as operating personnel offices, providing space and supplies for employees, keeping payroll and leave records, and accounting for expenditures. All agencies also require the services of typists, stenographers, and clerks.

In contrast to these large occupational groups, the smaller and more specialized occupations reflect the functions of the agencies in which they are found. For example, the Department of Defense employed over half the workers in the engineering group. The Army alone used nearly 3,000 civil engineers and twice as many engineering aids and draftsmen to carry out the Corps of Engineers' civil works program, and such services as mapping and research. The Navy employed large numbers of mechanical engineers (2,525), electronic engineers (2,104), and naval architects (1,140), to carry out its responsibilities in the fields of naval research, design, and development.

Next most important employer of engineers was the Department of the Interior, which had about 1,000 employees each in civil, electrical, and hydraulic engineering, and in surveying and cartographic engineering. Many of these employees were working on reclamation or geological-survey projects.

The Veterans Administration employed over three-fourths of the workers in the medical, hospital, dental, and public-health group in its hospitals throughout the country.

⁵ The Washington area includes offices in nearby Maryland and Virginia, as well as those located in the District of Columbia.

TABLE 2.—Grade distribution and average salary in white-collar occupations having over 5,000 employees, June 30, 1951

Occupational group	Total number of employees ¹	Percentage distribution by grade									Average annual salary
		All grades	Grades 1-2	Grades 3-4	Grades 5-6	Grades 7-8	Grades 9-10	Grades 11-12	Grades 13-14	Grades 15-18	
All groups.....	876,810	100.0	17.6	35.6	14.6	11.8	8.7	8.5	2.8	0.4	\$3,700
General administrative, clerical, and office services.....	439,656	100.0	27.1	51.1	10.4	4.8	3.4	2.1	.9	.2	
General clerical and administrative.....	83,151	100.0	15.4	30.1	17.2	13.0	11.7	7.6	3.8	1.2	3,929
Mail and file.....	38,424	100.0	52.0	41.6	5.2	.9	.2	.1	(2)	(2)	2,812
Stenographer.....	6,038	100.0	13.3	84.0	2.7						2,895
Clerk-stenographer.....	49,424	100.0	7.6	90.8	1.6						2,907
Secretary.....	21,924	100.0		48.2	47.7	3.7	.4	(2)			3,309
Typist.....	7,838	100.0	90.3	9.7	(2)						2,583
Clerk-typist.....	107,872	100.0	43.3	56.7							2,705
General supply.....	6,386	100.0	2.9	26.5	22.6	21.2	14.5	9.7	2.4	.2	4,080
Property and stock control.....	30,026	100.0	17.5	61.1	14.8	4.6	1.7	.3	(2)		3,058
Procurement.....	8,308	100.0		37.6	29.5	16.7	9.1	6.0	1.0	.1	3,773
Storage.....	19,805	100.0	26.9	56.3	11.5	3.5	1.2	.5	.1		2,966
Card punch operation.....	8,330	100.0	63.0	34.3	2.4	.3	(2)				2,678
Tabulating machine operation.....	6,133	100.0	42.6	49.4	6.7	1.0	.2	.1			2,678
Telephone operating.....	6,509	100.0	24.7	70.3	4.6	.4	(2)	(2)			2,801
Accounting and fiscal.....	77,001	100.0	2.6	44.4	18.4	11.4	9.5	10.5	2.9	.3	
Accounting and fiscal clerical.....	26,820	100.0	2.8	54.4	22.4	10.2	5.9	3.5	.7	.1	3,492
Business accounting.....	5,474	100.0			7.8	22.1	28.8	32.1	8.4	.8	5,318
Internal revenue agent.....	7,704	100.0			.2	17.6	29.7	45.4	6.8	.3	5,501
Voucher examining.....	5,924	100.0		69.2	22.7	6.0	1.7	.4			3,246
Tax accounting.....	5,099	100.0		20.0	39.0	21.3	8.5	5.2	5.7	.3	4,170
Engineering.....	69,094	100.0	4.4	11.2	18.6	15.6	16.0	26.5	7.2	.5	
Engineering aid.....	10,812	100.0	11.4	38.3	34.5	14.8	.7	.3			3,315
Civil engineering.....	5,712	100.0			5.7	20.3	25.7	37.1	10.2	1.0	5,497
Engineering drafting.....	6,750	100.0	8.9	22.4	45.1	19.3	3.9	.4			3,509
Mechanical engineering.....	5,890	100.0			14.2	15.1	24.5	40.1	5.9	.2	5,227
Electronic engineering.....	5,421	100.0			10.2	15.2	22.6	42.1	9.4	.5	5,463
Medical, hospital, dental, and public health.....	3,831	100.0	53.4	19.5	16.7	5.1	1.6	2.6	1.0	.1	
Hospital attendant.....	29,207	100.0	82.9	16.5	.6						2,552
Inspection and investigation.....	57,119	100.0	.3	5.6	19.0	40.9	20.7	11.2	2.2	.1	
General investigating.....	5,420	100.0		6.5	6.5	33.6	35.5	18.4	3.2	.4	4,865
Criminal investigating.....	9,079	100.0		2.4	.7	11.3	37.6	40.2	9.9	.3	5,837
Tax collection.....	10,230	100.0			33.7	42.6	23.1	.5	.1		4,214
Miscellaneous inspection and investigation.....	10,690	100.0	1.4	13.1	23.0	47.1	10.9	4.2	.3		4,046
Legal and kindred.....	29,072	100.0		16.8	18.7	16.3	18.6	17.9	9.7	2.0	
Claims examiner.....	9,302	100.0		31.2	38.2	13.6	15.7	1.0	.3	(2)	3,744
Biological sciences.....	25,877	100.0	6.9	21.3	18.9	26.9	11.9	11.1	2.8	.2	
Physical sciences.....	21,462	100.0	3.3	9.0	21.5	18.6	16.2	22.5	7.6	1.3	
Business and industry.....	21,243	100.0	(2)	9.4	8.7	16.4	26.9	27.7	9.3	1.6	
Mathematics and statistics.....	18,278	100.0	1.8	50.1	22.3	10.2	6.2	6.4	2.7	.3	
Statistical clerical.....	9,742	100.0		65.2	25.7	5.9	2.0	1.1	.1		3,228
Personnel administration and industrial relations.....	17,335	100.0	.4	25.8	22.9	15.9	14.9	14.3	5.4	.4	
Personnel administration.....	5,729	100.0		27.5	21.8	19.6	21.8	8.4	.9		4,979
Mechanic.....	11,143	100.0	.8	6.8	27.5	29.8	22.7	9.9	2.4	.1	
Social science, psychology, and welfare.....	10,930	100.0	2.0	1.8	11.7	21.1	15.7	29.5	14.4	3.8	
Education.....	8,168	100.0			31.1	39.0	16.0	9.7	3.9	.2	
Education and training.....	5,629	100.0			36.8	39.5	13.2	8.3	2.0	.2	4,210
Fine and applied arts.....	5,232	100.0	3.7	19.4	29.4	17.1	11.0	16.3	3.0	.1	
Library and archives.....	3,043	100.0	4.2	23.9	23.6	26.3	13.5	7.3	1.1	.1	
Veterinary science.....	1,864	100.9			9.3	25.3	41.0	20.2	4.0	.2	
Copyright, patent, and trade-mark.....	1,164	100.0			6.5	8.6	18.0	53.2	12.3	1.4	
Miscellaneous occupations (not elsewhere classified).....	11,298	100.0	4.2	24.9	23.4	13.2	11.3	16.4	5.9	.7	
Information and editorial.....	6,591	100.0		30.3	19.2	14.2	10.3	16.8	8.0	1.2	4,497

¹ Excludes 29,092 employees for whom grade was not specified.² Less than 0.05 percent.³ Excludes 18,636 employees (mainly professional personnel) for whom grade was not specified.

The Department of Agriculture employed approximately four-fifths of the employees in the biological-sciences group in such activities as soil conservation and forest and range fire control. Next largest employer of biological scientists was the Department of the Interior, which had about 2,700 working in such occupations as park ranger, range management and conservation, forestry, fish culture, and wildlife management and research.

Workers in the broad physical sciences group were employed chiefly in research laboratories of the Navy (5,420), the Army (3,260), the National Advisory Committee for Aeronautics (2,180), and the Weather Bureau and National Bureau of Standards in the Department of Commerce

(4,682).⁶ The majority of workers in electronic research, development, and testing, more than half of the physicists, and most of the specialists in nautical science and astronomy were employed by the Navy. Meteorologists and meteorological aids were concentrated in the Weather Bureau.

A fourth of the social scientists, psychologists, and welfare workers were employed by the Veterans Administration. Most of these VA employees were social workers and psychologists.

⁶ The Atomic Energy Commission, while an important indirect source of employment for physical scientists, actually employed fewer than 2 percent of the full-time scientists on the Federal payroll in June 1951. Most of the scientists working on the Atomic Energy Commission program are on the staffs of universities and private companies holding contracts with AEC.

Grade Distribution and Salary Rates

The current salary schedule for Federal white-collar workers is the General Schedule established by the Classification Act of 1949, as amended in October 1951. This schedule specifies the minimum and maximum annual salary and intermediate salary steps for each grade of position from 1 through 18. In general, a worker entering a position of a given grade starts at the minimum salary for that grade and receives increases at regular intervals up to the specified maximum salary. The following tabulation shows the rates in effect June 1951. Salaries were subsequently increased by 10 percent of the minimum rate for each grade, with a minimum increase of \$300 and a maximum of \$800.

	<i>In-grade steps</i>		<i>Salary range, June 1951¹</i>
	<i>Num-ber</i>	<i>Amount of in-crease</i>	
Grade 1.....	7	\$80	\$2, 200-\$2, 680
Grade 2.....	7	80	2, 450- 2, 930
Grade 3.....	7	80	2, 650- 3, 130
Grade 4.....	7	80	2, 875- 3, 355
Grade 5.....	7	125	3, 100- 3, 850
Grade 6.....	7	125	3, 450- 4, 200
Grade 7.....	7	125	3, 825- 4, 575
Grade 8.....	7	125	4, 200- 4, 950
Grade 9.....	7	125	4, 600- 5, 350
Grade 10.....	7	125	5, 000- 5, 750
Grade 11.....	6	200	5, 400- 6, 400
Grade 12.....	6	200	6, 400- 7, 400
Grade 13.....	6	200	7, 600- 8, 600
Grade 14.....	6	200	8, 800- 9, 800
Grade 15.....	5	250	10, 000-11, 000
Grade 16.....	5	200	11, 200-12, 000
Grade 17.....	5	200	12, 200-13, 000
Grade 18.....			14, 000-14, 000

¹ In grades 10 and below, additional "longevity" increases, above the specified maximum salaries, are given to employees who have been in the same grade for a long period of time.

Over half the Federal employees for whom grade was reported in mid-1951 were classified in grades 1 through 4 (table 2). The greatest concentration of workers (22 percent) was in grade 3. Although a fifth of all employees were classified in grade 9 or above with salaries of \$4,600 or more, only 3.2 percent were in the top six grades with salary rates of \$7,600 or above.

These over-all figures reflect, to a great extent, the grade distribution of the largest group of Federal white-collar workers—the administrative, clerical, and office services group. In this major group, 75 percent of the workers were in grades 2

through 4, and 10 percent were in grades 5 and 6; but only 1 percent held administrative positions in the 5 highest grades (14 through 18).

The major occupational group having the largest proportion of workers (over 50 percent) in grades 1 and 2 was the medical, hospital, dental, and public-health category. Most of the workers in these grades were hospital attendants. Among the professional employees in the medical group for whom grade was reported, the great majority of the physicians were in grade 12, most of the dentists were in grade 10, and over 80 percent of the nurses were in grade 5—the lowest grade for professional workers.

Only three major occupational groups—education; veterinary science; and copyright, patent, and trade-mark—were made up entirely of professional workers. Therefore, these groups included only employees in grades 5 or above.

The average annual salary of Government white-collar employees was \$3,700 on June 30, 1951. It was raised to \$4,066 by the salary increase provided as of July 1951. The average July 1951 salary was somewhat higher for employees in Washington, D. C. (\$4,496) than for those outside Washington (\$3,951). This difference was due largely to the concentration of administrative and executive personnel in the capital city.

Most groups of clerical workers had relatively low average salaries, as shown by the grade distributions in table 2. Under the broad heading "general administrative, clerical, and office services," were 14 occupational categories each of which included more than 5,000 employees. In 9 of these categories, the average salary was below \$3,000; and in the other 5, workers with jobs in the "general supply" series had the highest average salary—\$4,080.

Among the 34 occupational series with more than 5,000 workers, employees in 17 had average salaries greater than the average for all white-collar employees (\$3,700). The highest paid of these relatively large occupational groups were internal revenue agents, civil engineers, electronic engineers, mechanical engineers, criminal investigators, and business accountants, with average salaries ranging up to about \$5,800. Only 8 administrative and legal occupations, each with less than 150 employees at the time of the survey, had average salaries as high as \$8,000.

Appendix Tables

Table A.--Distribution of white-collar employees, by occupation, June 30, 1947 and 1951
(Figures for 1947 and 1951 are not strictly comparable.) 1/

8

Occupational series ^{2/}	1947	1951		
	All employees	All employees	In Washington, D. C.	Outside Washington, D. C.
Total	680,134	905,902	189,721	716,181
General administrative, clerical, and office services	366,917	446,796	96,808	349,988
General clerical and administrative	78,619	85,732	19,683	66,049
Organization and methods examining	2,229	4,146	1,770	2,376
Mail and file	38,334	38,551	14,519	24,032
Records management	---	19	7	12
Communications coding	247	392	239	153
Correspondence clerk	5,368	3,661	1,912	1,749
Stenographer	5,245	6,038	676	5,362
Stenographic unit supervising	155	274	59	215
Clerk-stenographer	53,245	49,631	7,820	41,811
Clerk-stenographic unit supervising	147	165	43	122
Dictating machine transcriber	999	1,518	405	1,113
Dictating machine transcribing unit supervising	10	71	29	42
Clerk-dictating machine transcriber	175	1,087	249	838
Shorthand reporter	456	497	154	343
Secretary	8,403	22,070	10,458	11,612
Typist	9,352	7,857	1,159	6,698
Typing unit supervising	134	191	35	156
Clerk-typist	74,226	111,343	19,845	91,498
Clerk-typing unit supervising	98	117	37	80
Varitypist	331	407	171	236
General supply	9,963	6,386	1,254	5,132
Printing and publications	1,255	1,392	958	434
Property and stock control	21,524	30,152	1,594	28,558
Procurement	4,929	8,349	1,509	6,840
Storage	17,807	20,023	1,202	18,821
Supply cataloging	12	2,766	741	2,025
Supply requirements and distribution	---	3,129	929	2,200
Surplus property disposal	4,492	535	89	446
Miscellaneous office appliance operating	576	386	149	237
Addressing equipment operating	547	982	82	900
Addressing machine operating	382	351	75	276
Graphotype operating	379	317	40	277
Bookkeeping machine operating	3,084	2,750	223	2,527
Calculating machine operating	2,116	2,303	403	1,900
Card punch operation	3,087	8,330	2,441	5,889
Sorting machine operation	387	184	54	130
Tabulating machine operation	2,152	6,133	2,133	4,000
Tabulating equipment operation	3,007	4,164	1,060	3,104
Miscellaneous duplicating equipment operating	1,498	1,346	203	1,143
Mimeograph operating	421	281	46	235
Multigraph operating	84	40	5	35
Offset duplicating devices operating	580	97	5	92
Offset duplicating devices unit supervising	25	13	6	7
Offset duplicating devices camera operating and platemaking	107	13	1	12
Offset duplicating devices platemaking	98	11	---	11
Offset duplicating devices camera operating	26	3	---	3
Blueprint and photostat operating	267	388	63	325
Photostat operating	354	244	104	140
Blueprint operating	348	620	217	403
Microphotography	366	552	168	384
Telephone and telegraph operating	37	177	9	168
Telephone and telegraph communication service supervising.....	88	94	28	66
Telephone operating	4,929	6,558	958	5,600
Telephone communication service supervising	82	80	12	68
Telegraph operating	47	48	28	20
Telegraphic-typewriter operating	1,855	3,267	679	2,588
Fire alarm telegraph and telephone operating ...	12	43	---	43
Telegraph and code service supervising, White House	---	1	---	1

See footnotes at end of table.

Table A.--Distribution of white-collar employees, by occupation, June 30, 1947 and 1951--Continued
(Figures for 1947 and 1951 are not strictly comparable.) 1/

9

Occupational series ^{2/}	1947	1951		
	All employees	All employees	In Washington, D. C.	Outside Washington, D. C.
Radio and telegraph operating	1,066	175	22	153
Radio operating	888	346	48	298
Miscellaneous general administrative, clerical, and office services	267	—	—	—
Accounting and fiscal	75,688	77,428	16,594	60,834
Accounting and fiscal clerical	36,907	27,091	6,382	20,709
Business accounting	4,616	5,474	1,117	4,357
Government accounting	—	2,765	1,363	1,402
Internal revenue agent	7,914	7,704	46	7,658
Accounting investigating	196	253	110	143
Cash accounting	2,845	4,510	818	3,692
Voucher examining	—	5,924	1,102	4,822
Fiscal auditing	3,756	1,389	900	489
Transportation rate auditing	790	898	866	32
Payroll	5,303	1,643	347	1,296
Time, leave, and payroll	1,780	4,696	642	4,054
Military pay	4	4,225	389	3,836
Military time, leave, and pay	17	3	—	3
Benefit-payment roll	—	2,212	222	1,990
Budget administration	1,521	1,779	1,278	501
Time and leave	794	1,749	183	1,566
Military time and leave	1	14	1	13
Tax accounting	4,913	5,099	828	4,271
Miscellaneous accounting and fiscal	4,331	—	—	—
Engineering	51,098	71,260	13,109	58,151
General engineering	764	2,773	693	2,080
Engineering aid	9,418	11,223	503	10,720
Safety engineering	491	516	99	417
Fire prevention engineering	92	81	32	49
Maintenance engineering	274	157	40	117
Materials engineering	741	836	151	685
Architectural engineering	580	570	207	363
Civil engineering	6,238	6,265	426	5,839
Construction engineering	1,418	3,450	382	3,068
Structural engineering	778	980	178	802
Hydraulic engineering	1,106	1,949	145	1,804
Surveying and cartographic engineering	548	1,632	506	1,126
Surveying and cartography	2,817	4,499	2,011	2,488
Cartographic drafting	4	2,001	721	1,280
Engineering drafting	5,899	6,851	831	6,020
Highway engineering	848	814	160	654
Highway research engineering	—	38	37	1
Highway design engineering	—	68	10	58
Highway construction and maintenance engineering	1	176	37	139
Bridge engineering	99	139	40	99
Traffic engineering	3	4	3	1
Mechanical engineering	4,030	6,041	1,350	4,691
Automotive engineering	109	88	33	55
Automotive research, development, and design engineering	—	305	4	301
Internal combustion power plant research, development, and design engineering	—	269	65	204
Ordnance engineering	1,281	1,436	409	1,027
Ordnance design engineering	154	642	229	413
Electrical engineering	3,335	4,676	929	3,747
Electronic engineering	—	5,421	1,306	4,115
Signal engineering	51	14	7	7
Aeronautical engineering	1,693	849	191	658
Aeronautical research, development, and design engineering	97	574	134	440
Airways engineering	565	312	54	258
Marine engineering	561	636	209	427
Naval architecture	829	1,239	343	896
Mining engineering	147	381	84	297
Petroleum production and natural-gas engineering	149	193	69	124
Agricultural engineering	563	849	36	813
Ceramic engineering	45	55	31	24

See footnotes at end of table.

Table A.--Distribution of white-collar employees, by occupation, June 30, 1947 and 1951--Continued
(Figures for 1947 and 1951 are not strictly comparable.) 1/

10

Occupational series ^{2/}	1947	1951		
	All employees	All employees	In Washington, D. C.	Outside Washington, D. C.
Chemical engineering	517	1,093	144	949
Welding engineering	—	66	14	52
Industrial engineering	330	876	165	711
Valuation engineering	255	219	88	131
Lighthouse engineering	6	4	3	1
Miscellaneous engineering	4,262	—	—	—
Medical, hospital, dental, and public health	36,739	66,467	3,657	62,810
Medical officer	792	5,020	332	4,688
Coroner	2	—	—	—
Nurse	2,422	18,446	890	17,556
Public health nurse	73	89	26	63
Trained practical nurse	—	594	6	588
Hospital attendant	24,664	29,215	1,614	27,601
First aid attendant	79	46	1	45
Morgue attendant	14	54	2	52
Embalmer	37	5	—	5
Dietitian	662	922	34	888
Occupational therapist	298	518	22	496
Occupational therapy aid	753	405	1	404
Physical therapist	518	846	19	827
Physical therapy aid	910	547	11	536
Exercise therapist	—	188	3	185
Medical technician	2,685	2,738	99	2,639
Histopathology technician	—	185	58	127
Medical X-ray technician	426	1,295	116	1,179
Electrocardiograph technician	39	171	2	169
Medical technical assistant	—	124	8	116
Electroencephalograph technician	24	88	1	87
Pharmacist	402	524	28	496
Pharmacy helper	104	119	3	116
Optometrist	11	45	2	43
Prosthetic technician	—	7	3	4
Audiology and speech correction	—	42	16	26
Audiology technician	—	3	2	1
Orthopedic technician	210	327	18	309
Chiropodist	6	10	—	10
Medical records librarian	—	37	9	28
Hospital administration	—	199	18	181
Dental officer	149	1,080	47	1,033
Dental assistant	436	1,377	51	1,326
Dental hygiene	353	248	14	234
Dental technician	389	603	39	564
Public health administration	—	278	131	147
Food and drug officer	—	72	31	41
Miscellaneous medical, hospital, dental, and public health	281	—	—	—
Inspection and investigation	23,772	57,210	1,982	55,228
General investigating	10,403	5,421	610	4,811
Criminal investigating	1,258	9,101	829	8,272
Game law enforcement	—	106	2	104
Safety inspection	264	615	11	604
Airworthiness inspection	—	294	19	275
Coal mine inspection	—	234	1	233
Clothing inspection	87	204	—	204
Textile inspection	145	329	1	328
Cotton classing	115	91	4	87
Dairy and poultry inspection and grading	—	70	1	69
Fresh fruit and vegetable inspection	—	145	2	143
Grain inspection supervising	3	200	—	200
Meat grading	—	551	4	547
Processed fruit and vegetable inspection	—	307	—	307
Tobacco inspecting and grading	—	89	—	89
Wool classing	22	3	—	3
Tax collection	—	10,230	118	10,112
Alcohol-tax inspection	—	571	—	571
Storekeeper-gauger	—	1,486	—	1,486
Public health inspection	208	54	—	54
Food and drug inspection	—	275	1	274
Imported drug and food examining	2	17	—	17

See footnotes at end of table.

Table A.--Distribution of white-collar employees, by occupation, June 30, 1947 and 1951--Continued
(Figures for 1947 and 1951 are not strictly comparable.) 1/

11

Occupational series ^{2/}	1947	1951		
	All employees	All employees	In Washington, D. C.	Outside Washington, D. C.
Food inspection	28	2,179	1	2,178
Public health quarantine inspection	---	256	2	254
Construction inspection	1,144	3,076	33	3,043
Aircraft inspection	1,005	1,725	5	1,720
Aircraft engine inspection	219	491	4	487
Aircraft propeller inspection	41	51	---	51
Shipbuilding inspection	3,073	489	---	489
Ammunition inspection	---	923	7	916
Mechanical inspection	---	561	38	523
Electrical inspection	20	326	---	326
Plumbing inspection	8	4	---	4
Elevator inspection	3	5	---	5
Transportation utilities inspection	4	---	---	---
Street lighting and overhead lines inspection	3	10	---	10
Meter and gas inspection	9	3	2	1
Customs inspection	2,492	2,680	6	2,674
Customs examining and appraising	634	977	9	968
Customs marine officer	5	122	---	122
Customs entry and liquidating	391	793	6	787
Customs warehouse officer	---	230	1	229
Immigration patrol inspection	---	1,132	---	1,132
Weights and measures inspection	1	1	1	---
Admeasurement	137	41	4	37
Miscellaneous inspection and investigation	2,048	10,742	260	10,482
Legal and kindred	29,126	29,127	8,832	20,295
Trial attorney	622	2,853	1,289	1,564
Estate tax examiner	183	398	40	358
Hearing examiner	126	306	227	79
Attorney-trial examiner	195	79	70	9
Deportation examiner	31	112	20	92
Naturalization examiner	181	155	3	152
Clerk of court	13	6	6	---
Docket clerk	645	451	369	82
Legal administration	120	58	53	5
Legal assistance	127	729	183	546
Adjudicating	3,359	2,394	990	1,404
Claims examining	7,088	9,302	1,397	7,905
Contact representative	5,166	2,254	92	2,162
Legal examining	2,597	1,810	590	1,220
Insurance examining	2,547	1,327	375	952
Land law clerical and administrative	61	114	25	89
Immigrant inspector	---	886	4	882
Attorney-adviser	2,154	4,049	2,213	1,836
Legislative attorney	---	103	100	3
Attorney-editor	21	25	25	---
General attorney	---	523	142	381
Legal clerical and administrative	3,828	1,193	619	574
Miscellaneous legal and kindred	62	---	---	---
Biological sciences	17,762	25,988	2,115	23,873
Biology	128	314	139	175
Biological aid	692	745	128	617
Microbiology	13	24	4	20
Medical biology technician	---	511	274	237
Pharmacology	181	68	39	29
Agriculture extension	105	211	74	137
Agronomy	294	297	38	259
Agriculture aid	2,483	421	161	260
Zoology	19	11	9	2
Systematic zoology	11	21	20	1
Parasitology	28	86	48	38
Animal physiology	35	100	37	63
Entomology	689	515	98	417
Nematology	11	17	7	10
Bacteriology	299	584	162	422
Plant disease and insect control	63	548	---	548
Botany	45	62	35	27
Mycology	19	33	13	20
Herbarium aid	---	10	10	---
Plant taxonomy	---	2	2	---

See footnotes at end of table.

Table A.--Distribution of white-collar employees, by occupation, June 30, 1947 and 1951--Continued
(Figures for 1947 and 1951 are not strictly comparable.) 1/

12

Occupational series 2/	1947		1951	
	All employees	All employees	In Washington, D. C.	Outside Washington, D. C.
Plant pathology	414	219	54	165
Plant physiology	84	79	33	46
Plant quarantine inspection	84	296	14	282
Horticulture	125	90	34	56
Gardening	119	101	39	62
Tree culture	122	24	8	16
Genetics	---	35	11	24
General agricultural administration	67	143	103	40
General agriculture	2,054	2,734	35	2,699
Park naturalist	27	52	4	48
Park ranger	---	322	---	322
Range management and conservation	200	398	10	388
Range management and conservation aid	---	80	---	80
Forest and range fire control	---	3,894	---	3,894
Soil conservation	3,529	4,237	38	4,199
Soil conservation aid	---	2,104	1	2,103
Forestry	2,251	2,183	58	2,125
Forestry research	389	332	14	318
Forestry aid	1,181	1,418	2	1,416
Soil science	1,004	1,266	60	1,206
Fish culture	294	317	3	314
Fishery management	---	28	11	17
Fishery research biology	---	160	8	152
Fishery aid	---	70	---	70
Predator and rodent control	---	85	2	83
Wildlife management	---	135	8	127
Wildlife research biology	98	136	33	103
Husbandry	128	98	65	33
Agriculture technology	49	38	26	12
Dairy manufacturing technology	6	19	14	5
Fishery products technology	---	8	4	4
Home economics	185	280	108	172
Microanalysis	24	25	15	10
Meat technology	---	2	2	---
Miscellaneous biological sciences	213	---	---	---
Physical sciences	11,997	21,595	5,658	15,937
Physical sciences, n.e.c.	---	1,806	31	1,775
Physical science administration	60	517	215	302
Physics	1,560	3,067	1,365	1,702
Physical science aid	1,807	3,107	617	2,490
Electronic research, development, and test	---	1,901	840	1,061
Geophysical exploration, survey, and investigation	---	77	35	42
Chemistry	2,855	4,346	1,151	3,195
Metallurgy	399	525	136	389
Astronomy	35	39	38	1
Meteorology	613	1,797	277	1,520
Meteorological aid	2,112	1,496	157	1,339
Geology	757	1,211	219	992
Nautical science	74	239	209	30
Technology	607	789	241	548
Paper technology	2	4	3	1
Firearms identification	---	3	3	---
Document analysis	---	29	29	---
Laboratory helper	885	642	92	550
Miscellaneous physical sciences	231	---	---	---
Business and industry	9,124	21,318	5,309	16,009
Contract specialist	---	890	191	699
Air transport examining	1	67	67	---
Traffic management	4,430	4,818	877	3,941
Transportation rate examining	353	251	227	24
Communication specialist	---	166	65	101
Communications rate examining	21	9	6	3
Public utilities specialist	---	27	21	6
Natural gas and electric rate examining	---	5	5	---
Business analyst	1,070	2,450	650	1,800
Agricultural marketing specialist	1,493	578	274	304
Market news reporting	---	108	18	90
Warehouse examining	---	78	4	74
Industrial specialist	549	4,009	949	3,060

See footnotes at end of table.

Table A.--Distribution of white-collar employees, by occupation, June 30, 1947 and 1951--Continued
(Figures for 1947 and 1951 are not strictly comparable.) 1/

13

Occupational series 2/	1947		1951	
	All employees	All employees	In Washington, D. C.	Outside Washington, D. C.
Commodity-industry analyst	15	1,655	1,394	261
Production specialist	—	1,863	207	1,656
Laundry dry-cleaning plant management	—	33	1	32
General finance	—	1,210	109	1,101
Loan examination	—	324	12	312
Appraising and assessing	809	1,426	62	1,364
Realty acquisition and disposal	44	768	96	672
Housing management	—	401	49	352
Building management	339	182	25	157
Mathematics and statistics	10,373	18,308	11,870	6,438
Actuary	—	49	38	11
Actuarial clerical	759	368	303	65
Mathematics	518	1,249	388	861
Statistics	1,699	2,038	1,458	580
Statistical clerical	5,532	9,750	6,121	3,629
Statistical coding	1,419	1,672	786	886
Statistical drafting	397	475	179	296
Cryptography	35	1,111	1,027	84
Cryptanalysis	5	411	393	18
Cryptographic clerical	9	1,185	1,177	8
Personnel administration and industrial relations ...	15,453	17,417	6,059	11,358
Personnel administration	8,838	5,774	1,946	3,828
Personnel research	120	266	151	115
Personnel clerical	—	3,005	1,317	1,688
Appointment and status changes	1,554	2,211	551	1,660
Placement	1,517	1,733	641	1,092
Qualifications rating	137	362	60	302
Test rating	294	110	12	98
Personnel rating examining	110	92	34	58
Position-classification	1,800	1,963	738	1,225
Occupational analysis	—	177	168	9
Salary and wage administration	1	379	78	301
Employee relations	608	476	203	273
Conciliation and mediation	12	276	40	236
Apprenticeship representative	27	360	16	344
Retirement	435	233	104	129
Mechanic	2,215	11,176	1,907	9,269
Laboratory general mechanic	498	1,510	419	1,091
Laboratory electronic mechanic	—	1,761	458	1,303
Automotive engine laboratory mechanic	19	2	1	1
Laboratory cabinetmaking	20	39	18	21
Laboratory electrician	252	727	90	637
Laboratory machinist	65	171	102	69
Ceramic working	4	5	4	1
Exhibits construction	62	113	66	47
Glassblowing	8	49	24	25
Glass working	10	13	13	—
Instrument making	127	405	251	154
Optical working	7	14	9	5
Plastic working	1	15	4	11
Textile working	—	11	—	11
Foundry	2	12	11	1
Pattern making	1	1	—	1
Tool and gage designing and construction	15	192	2	190
Construction and maintenance superintending	131	536	67	469
Building and grounds superintendence	—	234	40	194
Mechanical shop superintendence	—	375	4	371
Fishery methods and equipment	—	9	3	6
Operating engineer	—	44	2	42
Motion picture projection	266	324	28	296
Equipment specialist	—	3,039	150	2,889
Electronics	—	995	55	940
Aircraft operation	—	580	86	494
Miscellaneous mechanic	727	—	—	—
Social science, psychology, and welfare	3,407	10,954	6,020	4,934
Social science	2,572	473	144	329
Social administration	—	321	200	121
General economics	—	208	96	112
Business economics	1,595	1,219	891	328

See footnotes at end of table.

Table A.—Distribution of white-collar employees, by occupation, June 30, 1947 and 1951—Continued
(Figures for 1947 and 1951 are not strictly comparable.) 1/

14

Occupational series 2/	1947		1951	
	All employees	All employees	In Washington, D. C.	Outside Washington, D. C.
International trade and development economics ..	—	392	391	1
Fiscal and financial economics	—	217	210	7
Transportation economics	55	134	123	11
Labor economics	—	462	366	96
Agricultural economics	518	588	408	180
Forest economics	53	41	11	30
Foreign affairs	1,225	1,136	1,093	43
International relations	—	210	210	—
Intelligence research	—	336	331	5
Military intelligence research	—	894	803	91
Military intelligence analysis	—	108	90	18
Geography	112	263	259	4
History	189	294	137	157
Psychology	—	968	92	876
Social work	1,416	1,445	79	1,366
Welfare work	83	451	17	434
Recreation	404	701	36	665
General anthropology	12	6	3	3
Anthropology aid	9	1	—	1
Physical anthropology	5	29	6	23
Archeology	23	38	5	33
Ethnology	47	5	5	—
Scientific linguistics	—	14	14	—
Miscellaneous social science, psychology, and welfare	89	—	—	—
Education	3/ 5,167	8,172	799	7,373
Education and training	—	5,631	259	5,372
Training administration and instruction	—	2,138	262	1,876
Educational research and consultation	—	403	278	125
Miscellaneous education	82	—	—	—
Fine and applied arts	3,268	5,278	1,632	3,646
Fine and applied arts	75	103	35	68
Art administration	15	19	11	8
Illustrating	669	1,436	466	970
Architecture	584	821	355	466
Landscape architecture	111	264	85	179
Musical technician	46	22	4	18
Photography	1,526	2,196	557	1,639
Motion picture production	230	409	113	296
Motion picture acting	4	1	—	1
Radio production	—	1	—	1
Engraving	8	4	4	—
Steel plate engraving superintendence	—	2	2	—
Library and archives	2,118	3,054	1,402	1,652
Library	1,175	1,719	704	1,015
Library assistant	660	844	341	503
Archives	201	273	219	54
Archives assistant	82	218	138	80
Veterinary science	3/ 1,765	1,864	53	1,811
Veterinary livestock inspection	—	978	—	978
Veterinary meat inspection	—	513	1	512
Veterinary	—	317	47	270
Veterinary virus-serum inspection	—	56	5	51
Copyright, patent, and trade-mark	1,015	1,164	1,098	66
Copyright examining	1	6	4	2
Patent administration	7	16	15	1
Patent advisor	96	171	111	60
Patent attorney	10	5	5	—
Patent classifying	54	35	35	—
Patent examining	755	835	834	1
Patent interference examining	8	8	8	—
Design patent examining	15	22	22	—
Trade-mark classifying	—	8	6	2
Trade-mark examining	66	55	55	—
Trade-mark interference examining	3	3	3	—
Miscellaneous occupations	8,130	11,326	4,817	6,509
Prison administration	106	925	41	884
Institutional administration	2	3	—	3
Institutional management	119	—	—	—
Information and editorial	4,199	6,609	3,041	3,568
Bond sales promotion	—	312	39	273

See footnotes at end of table.

Table A.--Distribution of white-collar employees, by occupation, June 30, 1947 and 1951--Continued
(Figures for 1947 and 1951 are not strictly comparable.) ^{1/}

15

Occupational series ^{2/}	1947	1951		
	All employees	All employees	In Washington, D. C.	Outside Washington, D. C.
Information receptionist and tour leader	—	129	15	114
Community and regional planning	—	25	11	14
Translator	284	400	234	166
Clerk-translator	12	53	45	8
Interpreter	10	72	24	48
Museum	37	49	31	18
Museum aid	160	62	51	11
Funeral directing	—	11	1	10
Chaplain	37	276	10	266
Document examining	8	2	2	—
Fingerprint identification	53	1,197	1,171	26
Security administration	129	133	3	130
Fire fighting and fire prevention	401	193	13	180
Field deputy marshal	—	543	85	458
Automotive traffic control	—	17	—	17
Water meter reading	1	—	—	—
Marine superintendence	—	315	—	315
Other	2,572	—	—	—

^{1/} Comparability of figures is somewhat affected by completeness of coverage and changes in classification of occupations. In general, 1947 figures are understated, but some occupations are affected more than others. The 1947 figures include all employees in the competitive civil service; 1951 figures include only full-time employees at general schedule rates. Revisions and additions to the position-classification plan make direct comparisons impossible in some occupational series. The fact that a series shows employees in 1951, but none in 1947, may mean that the functions were formerly performed by employees assigned to another series. For example, the electronics series, established in October 1951, contains certain positions formerly allocated to the engineering aid series and the radio repairing series.

^{2/} The designations used in the stub of the table are from the Handbook of Occupational Groups and Series of Classes, published by the U. S. Civil Service Commission. The major occupational groups are presented in descending size order according to 1951 employment. Within these groups, the series are arranged according to the code order given in the Handbook.

^{3/} Breakdown not available.

Source: Tabulations furnished by U. S. Civil Service Commission.

Table B.--Occupational distribution of full-time

Occupational series 1/	: All : : agencies :	: Army :	: Navy :	: Air : : Force :	: Treasury :	: Agri- : : culture :	: Com- : : merce :	: Interior :	: Justice :
Total number	905,902	200,400	130,566	72,991	77,065	55,445	42,559	34,537	27,024
Total percent	100.0	22.1	14.4	8.1	8.5	6.1	4.7	3.8	3.0
General administrative, clerical, and office services 2/	446,796	115,948	75,816	47,600	33,191	16,381	19,728	9,143	11,647
Accounting and fiscal 2/	77,428	14,770	9,257	5,162	18,249	3,224	1,324	1,802	418
Engineering	71,260	22,500	17,293	5,028	307	3,368	4,697	11,880	57
Engineering aid	11,223	3,620	1,890	455	4	982	566	2,915	13
Engineering drafting	6,851	2,321	2,626	586	37	106	234	573	1
Civil engineering	6,265	2,920	344	309	44	354	127	1,322	---
Mechanical engineering	6,041	1,726	2,525	521	15	59	150	330	2
Electronic engineering	5,421	1,360	2,104	773	26	37	695	61	1
Electrical engineering	4,676	769	1,389	239	13	221	126	1,046	18
Surveying and cartography	4,499	1,624	433	655	---	151	734	820	---
Construction engineering	3,450	1,917	115	73	1	4	103	678	1
General engineering	2,773	472	1,129	173	3	95	74	469	3
Cartographic drafting	2,001	811	169	210	---	148	152	483	---
Hydraulic engineering	1,949	659	6	1	---	108	12	1,025	---
Surveying and cartographic engineering	1,632	327	89	87	---	110	81	925	---
Ordnance engineering	1,436	620	787	13	---	---	2	---	---
Naval architecture	1,239	36	1,140	---	16	---	47	---	---
Chemical engineering	1,093	350	269	21	---	99	2	209	---
Structural engineering	980	507	153	17	4	5	9	165	1
Industrial engineering	876	457	195	94	3	12	2	20	3
Aeronautical engineering	849	---	676	117	2	22	---	3	---
Agricultural engineering	849	3	---	---	---	758	---	84	---
Materials engineering	836	320	196	34	3	---	40	164	---
Highway engineering	814	23	---	1	---	36	720	19	---
Ordnance design engineering	642	499	134	8	---	---	1	---	---
Marine engineering	636	76	506	2	18	---	26	---	7
Aeronautical research, development, and design engineering	574	31	97	319	---	---	93	---	---
Architectural engineering	570	225	78	60	3	13	14	19	4
Safety engineering	516	243	78	65	4	4	4	27	1
Mining engineering	381	28	3	---	---	1	3	313	---
Airways engineering	312	---	1	---	---	---	310	1	---
Automotive research, development, and design engineering	305	304	1	---	---	---	---	---	---
Internal combustion power plant research, development, and design..	269	25	42	157	---	4	41	---	---
Valuation engineering	219	24	10	---	108	3	1	11	2
Petroleum production and natural gas engineering	193	9	6	---	---	---	---	134	---
Highway construction and maintenance engineering	176	2	---	---	---	6	117	51	---
Maintenance engineering	157	41	3	12	---	---	1	2	---
Bridge engineering	139	29	---	1	---	8	100	1	---
Automotive engineering	88	71	4	---	---	6	1	1	---
Fire prevention engineering	81	20	26	13	---	1	6	---	---
Highway design engineering	68	12	---	---	---	15	38	2	---
Welding engineering	66	3	62	1	---	---	---	---	---
Ceramic engineering	53	5	7	7	---	---	29	7	---
Other	60	11	---	4	3	---	36	---	---
Medical, hospital, dental, and public health	66,467	5,125	305	1,289	16	16	38	946	23
Hospital attendant	29,215	1,378	242	173	---	---	---	154	---
Nurse	18,446	1,394	437	570	11	10	19	555	20
Medical officer	5,020	233	5	113	---	2	9	86	---
Medical technician	2,738	595	33	112	---	---	6	10	---
Dental assistant	1,377	672	---	106	---	---	1	5	---
Medical X-ray technician	1,295	215	---	42	---	---	---	9	---
Dental officer	1,080	59	---	37	---	---	---	21	3
Dietitian	922	---	3	6	---	---	---	7	---
Physical therapist	846	4	7	3	---	---	---	---	---
Dental technician	603	158	---	21	---	---	---	---	---
Trained practical nurse	594	7	---	5	---	---	---	10	---
Physical therapy aid	547	14	2	4	---	---	---	---	---
Pharmacist	524	71	---	25	4	---	---	---	---
Occupational therapist	518	9	11	---	---	---	---	4	---

See footnotes at end of table.

State	Labor	Veterans Adminis- tration	Federal Security Agency	Economic Stabiliza- tion Admin- istration	General Services Adminis- tration	General Accounting Office	All other	Occupational series 1/
8,072 .9	6,954 .8	134,616 14.9	28,612 3.2	9,672 1.1	8,506 .9	6,757 .7	62,126 6.8	Total number Total percent
4,036	3,054	51,515	14,197	4,600	5,534	2,400	32,006	General administrative, clerical, and office services 2/
391	166	10,697	959	480	884	3,467	6,178	Accounting and fiscal 2/
170	24	379	232	---	508	---	4,817	Engineering
58	---	23	109	---	8	---	580	Engineering aid
9	---	27	4	---	23	---	304	Engineering drafting
27	---	11	56	---	1	---	750	Civil engineering
---	---	62	16	---	127	---	508	Mechanical engineering
18	---	---	---	---	---	---	346	Electronic engineering
---	---	40	6	---	32	---	777	Electrical engineering
3	---	---	3	---	---	---	76	Surveying and cartography
17	---	77	13	---	155	---	296	Construction engineering
1	---	29	2	---	14	---	309	General engineering
4	---	---	5	---	---	---	19	Cartographic drafting
21	---	---	---	---	---	---	117	Hydraulic engineering
8	---	---	---	---	---	---	5	Surveying and cartographic engineering
---	---	---	---	---	---	---	14	Ordnance engineering
---	---	---	---	---	---	---	---	Naval architecture
1	---	---	---	---	3	---	139	Chemical engineering
---	---	24	1	---	40	---	54	Structural engineering
---	15	---	---	---	21	---	54	Industrial engineering
---	---	---	---	---	---	---	29	Aeronautical engineering
---	---	---	---	---	---	---	4	Agricultural engineering
2	---	3	---	---	6	---	68	Materials engineering
---	---	---	---	---	---	---	15	Highway engineering
---	---	---	---	---	---	---	---	Ordnance design engineering
---	---	---	---	---	---	---	1	Marine engineering
---	---	---	---	---	---	---	---	Aeronautical research, development, and design engineering
1	---	42	6	---	39	---	34	Architectural engineering
---	9	18	1	---	16	---	66	Safety engineering
---	---	---	---	---	---	---	46	Mining engineering
---	---	---	---	---	---	---	33	Airways engineering
---	---	---	---	---	---	---	---	Automotive research, development, and design engineering
---	---	---	---	---	---	---	---	Internal combustion power plant research, development, and design
---	---	---	---	---	3	---	57	Valuation engineering
---	---	---	---	---	---	---	---	Petroleum production and natural gas engineering
---	---	---	---	---	---	---	44	Highway construction and maintenance engineering
---	---	19	10	---	20	---	49	Maintenance engineering
---	---	---	---	---	---	---	---	Bridge engineering
---	---	---	---	---	---	---	5	Automotive engineering
---	---	4	---	---	---	---	11	Fire prevention engineering
---	---	---	---	---	---	---	1	Highway design engineering
---	---	---	---	---	---	---	---	Welding engineering
---	---	---	---	---	---	---	---	Ceramic engineering
---	---	---	---	---	---	---	6	Other
16	---	52,238	5,650	---	2	9	294	Medical, hospital, dental, and public health
---	---	24,991	2,166	---	---	---	111	Hospital attendant
13	---	13,715	1,613	---	1	9	79	Nurse
2	---	4,346	173	---	---	---	51	Medical officer
1	---	1,713	246	---	---	---	22	Medical technician
---	---	547	44	---	---	---	2	Dental assistant
---	---	877	149	---	---	---	3	Medical X-ray technician
---	---	951	7	---	---	---	2	Dental officer
---	---	846	59	---	---	---	1	Dietitian
---	---	779	52	---	---	---	1	Physical therapist
---	---	401	21	---	---	---	2	Dental technician
---	---	104	468	---	---	---	---	Trained practical nurse
---	---	514	12	---	---	---	1	Physical therapy aid
---	---	409	14	---	---	---	1	Pharmacist
---	---	465	28	---	1	---	---	Occupational therapist

Table B.--Occupational distribution of full-time

Occupational series ^{1/}	All : :agencies:	Army	Navy	Air : :Force	Treasury	Agri- : :culture:	Com- : :merce	Interior:	Justice
Occupational therapy aid	405	9	2	---	---	---	---	2	---
Orthopedic technician	327	60	1	3	---	---	---	---	---
Public health administration	278	3	---	---	---	---	---	---	---
Dental hygiene	248	69	---	50	---	---	---	---	---
Hospital administration	199	4	---	---	---	---	---	11	---
Exercise therapist	188	11	---	---	---	---	---	---	---
Histopathology technician	185	45	6	3	---	3	---	---	---
Electrocardiograph technician	171	22	---	3	---	---	1	3	---
Medical technical assistant	124	---	27	1	---	---	---	19	---
Pharmacy helper	119	7	---	2	---	---	2	---	---
Public health nurse	89	1	---	---	---	1	---	46	---
Electroencephalograph technician	88	4	---	1	---	---	---	---	---
Food and drug officer	72	---	---	---	---	---	---	---	---
Morgue attendant	54	2	---	---	---	---	---	---	---
Other	195	79	29	9	1	---	---	4	---
Inspection and investigation group	57,210	10,604	5,981	2,015	20,033	3,867	597	873	8,107
Tax collection	10,230	---	---	---	10,230	---	---	---	---
Criminal investigating	9,101	49	75	49	2,811	4	15	21	6,005
General investigating	5,421	210	38	100	44	143	213	18	970
Construction inspection	3,076	1,935	403	44	6	---	---	411	---
Customs inspection	2,680	---	---	---	2,680	---	---	---	---
Food inspection	2,179	10	---	---	---	2,154	---	---	---
Aircraft inspection	1,725	---	1,121	601	---	---	1	---	---
Storekeeper-gauger	1,486	---	---	---	1,484	2	---	---	---
Immigration patrol inspection	1,132	---	---	---	---	---	---	---	1,132
Customs examining and appraising	977	---	---	---	977	---	---	---	---
Ammunition inspection	923	760	144	19	---	---	---	---	---
Customs entry and liquidating	793	1	---	---	792	---	---	---	---
Safety inspection	615	328	169	70	---	---	5	22	---
Alcohol tax inspection	571	---	---	---	571	---	---	---	---
Mechanical inspection	561	221	301	---	1	---	1	16	---
Meat grading	551	5	---	---	---	546	---	---	---
Aircraft engine inspection	491	---	318	171	---	---	---	---	---
Shipbuilding inspection	489	13	417	5	4	---	48	---	---
Textile inspection	329	217	76	33	---	2	1	---	---
Electrical inspection	326	91	204	---	---	---	---	23	---
Processed fruit and vegetable inspection	307	---	---	---	---	307	---	---	---
Airworthiness inspection	294	---	---	---	---	---	294	---	---
Food and drug inspection	275	2	---	---	---	---	---	---	---
Public health quarantine inspection	256	---	---	---	---	---	---	---	---
Coal mine inspection	234	---	---	---	---	---	---	234	---
Customs warehouse officer	230	---	---	---	230	---	---	---	---
Clothing inspection	204	142	62	---	---	---	---	---	---
Grain inspection supervision	200	---	---	---	---	200	---	---	---
Fresh fruit and vegetable inspection	145	---	---	---	---	145	---	---	---
Customs marine officer	122	---	---	---	122	---	---	---	---
Game law enforcement	106	---	---	---	---	---	---	106	---
Cotton classing	91	---	---	---	---	91	---	---	---
Tobacco inspection and grading	89	---	---	---	---	89	---	---	---
Dairy and poultry inspection and grading	70	1	---	---	---	69	---	---	---
Public health inspection	54	10	9	7	---	21	---	2	---
Aircraft propeller inspection	51	---	25	26	---	---	---	---	---
Miscellaneous inspection	10,742	6,607	2,613	890	40	92	19	9	---
Other	84	2	6	---	41	2	---	11	---
Legal and kindred ^{3/}	29,127	1,674	361	237	3,078	410	460	492	3,131
Biological sciences	25,988	733	163	102	---	20,936	15	2,706	2
Soil conservation	4,237	---	---	---	---	4,149	---	88	---
Forest and range fire control	3,894	10	---	---	---	3,756	---	128	---
General agriculture	2,734	---	---	---	---	2,621	---	95	1
Forestry	2,183	13	3	---	---	1,948	---	170	---
Soil conservation aid	2,104	3	---	---	---	2,086	---	15	---
Forestry aid	1,418	9	---	41	---	1,275	---	78	---
Soil science	1,266	13	---	---	---	1,046	---	207	---
Biological aid	745	59	36	6	---	403	1	57	1
Bacteriology	584	219	21	6	---	61	---	3	---
Plant disease and insect control	548	---	---	---	---	527	---	20	---
Entomology	515	32	5	2	---	435	---	1	---
Medical biology technician	511	110	---	1	---	23	---	1	---

See footnotes at end of table.

State	Labor	Veterans Adminis- tration	Federal Security Agency	Economic Stabiliza- tion Admin- istration	General Services Adminis- tration	General Accounting Office	All other	Occupational series ^{1/}
---	---	390	2	---	---	---	---	Occupational therapy aid
---	---	263	---	---	---	---	---	Orthopedic technician
---	---	---	259	---	---	---	16	Public health administration
---	---	69	60	---	---	---	---	Dental hygiene
---	---	179	4	---	---	---	1	Hospital administration
---	---	177	---	---	---	---	---	Exercise therapist
---	---	85	43	---	---	---	---	Histopathology technician
---	---	134	8	---	---	---	---	Electrocardiograph technician
---	---	---	77	---	---	---	---	Medical technical assistant
---	---	87	21	---	---	---	---	Pharmacy helper
---	---	---	41	---	---	---	---	Public health nurse
---	---	82	1	---	---	---	---	Electroencephalograph technician
---	---	---	72	---	---	---	---	Food and drug officer
---	---	52	---	---	---	---	---	Morgue attendant
---	---	62	10	---	---	---	1	Other
154	1,013	309	567	958	267	---	1,865	Inspection and investigation group
---	---	---	---	---	---	---	---	Tax collection
---	---	---	---	---	1	---	71	Criminal investigating
144	1,013	305	2	950	38	---	1,233	General investigating
10	---	---	---	---	1	---	266	Construction inspection
---	---	---	---	---	---	---	---	Customs inspection
---	---	---	14	---	1	---	---	Food inspection
---	---	---	---	---	---	---	2	Aircraft inspection
---	---	---	---	---	---	---	---	Storekeeper-gager
---	---	---	---	---	---	---	---	Immigration patrol inspection
---	---	---	---	---	---	---	---	Customs examining and appraising
---	---	---	---	---	---	---	---	Ammunition inspection
---	---	---	---	---	---	---	---	Customs entry and liquidating
---	---	---	---	---	---	---	21	Safety inspection
---	---	---	---	---	---	---	---	Alcohol tax inspection
---	---	---	---	---	10	---	11	Mechanical inspection
---	---	---	---	---	---	---	---	Meat grading
---	---	---	---	---	---	---	2	Aircraft engine inspection
---	---	---	2	---	---	---	---	Shipbuilding inspection
---	---	---	---	---	---	---	---	Textile inspection
---	---	---	---	---	---	---	8	Electrical inspection
---	---	---	---	---	---	---	---	Processed fruit and vegetable inspection
---	---	---	---	---	---	---	---	Airworthiness inspection
---	---	---	273	---	---	---	---	Food and drug inspection
---	---	---	256	---	---	---	---	Public health quarantine inspection
---	---	---	---	---	---	---	---	Coal mine inspection
---	---	---	---	---	---	---	---	Customs warehouse officer
---	---	---	---	---	---	---	---	Clothing inspection
---	---	---	---	---	---	---	---	Grain inspection supervision
---	---	---	---	---	---	---	---	Fresh fruit and vegetable inspection
---	---	---	---	---	---	---	---	Customs marine officer
---	---	---	---	---	---	---	---	Game law enforcement
---	---	---	---	---	---	---	---	Cotton classing
---	---	---	---	---	---	---	---	Tobacco inspection and grading
---	---	---	---	---	---	---	---	Dairy and poultry inspection and grading
---	---	---	3	---	---	---	2	Public health inspection
---	---	---	---	---	---	---	---	Aircraft propeller inspection
---	---	4	---	8	212	---	248	Miscellaneous inspection
---	---	17	---	---	4	---	1	Other
185	270	9,765	3,223	864	105	803	4,069	Legal and kindred ^{2/}
3	---	235	914	---	5	---	174	Biological sciences
---	---	---	---	---	---	---	---	Soil conservation
---	---	---	---	---	---	---	---	Forest and range fire control
---	---	1	3	---	---	---	13	General agriculture
---	---	---	---	---	---	---	49	Forestry
---	---	---	---	---	---	---	15	Soil conservation aid
---	---	---	---	---	---	---	---	Forestry aid
---	---	---	---	---	---	---	---	Soil science
---	---	39	139	---	---	---	4	Biological aid
---	---	127	144	---	---	---	3	Bacteriology
---	---	---	1	---	---	---	---	Plant disease and insect control
---	---	---	32	---	1	---	7	Entomology
---	---	21	355	---	---	---	---	Medical biology technician

Table B.--Occupational distribution of full-time

Occupational series ^{1/}	All : : agencies :	Army :	Navy :	Air : : Force :	Treasury :	Agri- : : culture :	Com- : : merce :	Interior : : :	Justice :
Agriculture aid	421	12	---	---	---	366	---	32	---
Range management and conservation...	398	---	---	---	---	186	---	212	---
Forestry research	332	---	---	---	---	332	---	---	---
Park ranger	322	20	---	---	---	---	---	302	---
Fish culture	317	---	---	---	---	---	---	317	---
Biology	314	47	33	3	---	21	---	75	---
Agronomy	297	34	1	9	---	243	6	3	---
Quarantine inspection	296	---	---	---	---	296	---	---	---
Home economics	280	18	3	1	---	223	---	21	---
Plant pathology	219	14	---	---	---	203	---	1	---
Agricultural extension	211	---	---	---	---	78	---	133	---
Fishery research biology	160	1	---	---	---	---	---	158	---
General agricultural administration.	143	---	---	---	---	140	---	---	---
Wildlife research biology	136	---	---	---	---	---	---	134	---
Wildlife management	135	---	---	---	---	1	---	132	---
Animal physiology	100	26	31	15	---	9	2	---	---
Gardening	101	17	---	5	---	1	4	20	---
Husbandry	98	4	2	---	---	86	---	3	---
Horticulture	90	---	4	---	---	82	---	1	---
Parasitology	86	6	14	---	---	34	---	---	---
Predator and rodent control	85	1	---	---	---	---	---	84	---
Range management and conservation aid	80	---	---	---	---	43	---	36	---
Plant physiology	79	7	---	---	---	67	---	1	---
Fishery aid	70	---	---	---	---	---	---	70	---
Pharmacology	68	21	1	1	---	9	---	1	---
Botany	62	5	1	4	---	39	---	3	---
Park naturalist	52	---	---	---	---	---	---	52	---
Other	297	32	8	8	---	147	2	52	---
Physical sciences	21,595	3,260	5,420	794	226	1,283	4,682	2,122	66
Chemistry	4,346	955	872	66	134	760	294	495	11
Physical science aid	3,107	747	727	53	68	222	309	407	24
Physics	3,067	487	1,726	130	---	32	552	60	2
Electronic research, development, and testing	1,901	168	1,087	396	---	---	229	3	5
Physical science, n.e.c.	1,806	5	---	---	---	---	---	---	---
Meteorology	1,797	25	35	60	---	3	1,668	1	---
Meteorological aid	1,496	21	5	12	---	---	1,455	2	---
Geology	1,211	139	1	---	---	24	3	934	---
Technology	789	202	244	30	1	162	62	45	---
Laboratory helper	642	325	1	5	6	70	---	24	---
Metallurgy	525	105	214	19	10	---	37	127	---
Physical science administration	517	79	239	9	---	9	24	3	1
Nautical science	239	1	221	10	3	---	4	---	---
Geophysical exploration, survey, and investigation	77	1	11	3	---	---	41	21	---
Other	75	---	37	1	4	1	4	---	23
Business and industry	21,318	5,088	2,698	1,846	45	973	2,282	477	47
Traffic management	4,818	1,978	1,031	754	9	154	77	15	9
Industrial specialist	4,009	1,184	366	499	1	51	681	19	3
Business analyst	2,450	74	30	102	2	13	448	16	30
Production specialist	1,863	733	702	350	20	---	8	8	---
Commodity industry specialist	1,655	144	48	19	---	8	1,048	197	---
Appraising and assessing	1,426	155	1	---	12	4	1	36	2
General finance	1,210	6	---	---	1	3	3	37	---
Contract specialist	890	348	400	79	---	---	---	1	---
Realty acquisition and disposal	768	331	47	5	---	3	4	101	2
Agricultural marketing specialist ..	578	2	---	---	---	571	---	---	---
Housing management	401	10	35	1	---	---	---	---	---
Loan examining	324	---	1	---	---	---	---	---	---
Transportation rate examiner	251	27	---	---	---	---	9	1	---
Building management	182	4	4	---	---	---	2	24	1
Communication specialist	166	57	33	34	---	---	---	---	---
Market news reporting	108	---	---	---	---	88	---	20	---
Warehouse examining	78	---	---	---	---	78	---	---	---
Air transport examining	67	---	---	---	---	---	---	---	---
Other	74	35	---	3	---	---	1	2	---

See footnotes at end of table.

State	Labor	Veterans Adminis- tration	Federal Security Agency	Economic Stabiliza- tion Admin- istration	General Services- Adminis- tration	General Accounting Office	All other	Occupational series
								1/
			2				9	Agriculture aid
								Range management and conservation
								Forestry research
								Park ranger
								Fish culture
			115				20	Biology
							1	Agronomy
								Quarantine inspection
			7				7	Home economics
			1					Plant pathology
								Agricultural extension
			1					Fishery research biology
3								General agricultural administration
			2					Wildlife research biology
							2	Wildlife management
			17					Animal physiology
		38	6		2		8	Gardening
			3					Husbandry
		1			1		1	Horticulture
		5	27					Parasitology
								Predator and rodent control
			1					Range management and conservation aid
							4	Plant physiology
		1	34					Fishery aid
							10	Pharmacology
								Botany
								Park naturalist
		2	24		1		21	Other
9		317	654		38		2,724	Physical sciences
		117	465		25		152	Chemistry
		17	89		5		439	Physical science aid
		1	21				56	Physics
								Electronic research, development, and testing
			2				11	Physical science, n.e.c.
		50	2				1,749	Meteorology
							5	Meteorological aid
6			1				103	Geology
1		3	2		8		29	Technology
		126	72				13	Laboratory helper
							13	Metallurgy
2							151	Physical science administration
								Nautical science
								Geophysical exploration, survey, and investigation
								Other
62	4	1,211	27	1,763	350	5	4,440	Business and industry
50	2	246	22	21	112	5	333	Traffic management
					3		1,202	Industrial specialist
	2			1,671	2		60	Business analyst
					2		40	Production specialist
				66	24		101	Commodity industry specialist
		373			3		839	Appraising and assessing
		121			3		1,036	General finance
		14			3		45	Contract specialist
3		73	1		122		76	Realty acquisition and disposal
							5	Agricultural marketing specialist
							355	Housing management
		320			1		2	Loan examining
				2			212	Transportation rate examiner
		64	4		57		22	Building management
9					13		20	Communication specialist
								Market news reporting
								Warehouse examining
							67	Air transport examining
				3	5		25	Other

Table B.—Occupational distribution of full-time

Occupational series ^{1/}	All : : agencies :	Army :	Navy :	Air : : Force :	Treasury : :	Agri- : : culture :	Com- : : merce :	Interior : :	Justice :
Mathematics and statistics	18,308	5,727	1,440	1,514	444	1,069	3,261	206	227
Statistical clerical	9,750	1,898	677	874	295	696	2,651	171	96
Statistics	2,038	213	180	214	27	338	378	15	5
Statistical coding	1,672	463	84	145	106	5	37	2	113
Mathematics	1,249	414	428	65	---	2	183	12	---
Cryptographic clerical	1,185	1,179	---	5	1	---	---	---	---
Cryptography	1,111	994	---	82	1	---	---	---	12
Statistical drafting	475	164	71	111	7	17	12	5	---
Cryptanalysis	411	386	---	16	---	---	---	---	1
Actuarial clerical	368	15	---	1	1	7	---	1	---
Actuary	49	1	---	1	6	4	---	---	---
Personnel administration and industrial relations 2/	17,417	5,004	3,171	2,189	525	460	473	450	191
Mechanic	11,176	1,977	4,444	123	7	187	2,883	699	18
Equipment specialist	3,039	434	2,591	---	---	---	2	2	1
Laboratory electronic mechanic	1,761	439	440	64	---	3	777	10	1
Laboratory general mechanic	1,510	191	604	---	1	45	238	402	---
Electronics	995	42	301	---	---	70	472	2	1
Laboratory technician	727	15	102	1	---	3	591	9	---
Aircraft operation	580	21	---	---	---	30	447	12	8
Construction and maintenance supervision	536	173	231	6	---	2	4	58	---
Instrument making	405	39	31	16	1	16	185	84	---
Mechanical shop supervision	375	331	---	6	2	---	6	27	---
Motion picture projection	324	81	5	16	3	1	---	1	---
Building and ground supervision	234	2	---	---	---	---	---	1	---
Tool and gage designing and construction	192	129	59	1	---	---	---	2	---
Laboratory machinist	171	6	22	---	---	7	101	32	---
Exhibits construction	113	29	19	9	---	3	6	22	7
Other	214	45	39	4	---	7	54	35	---
Social science, psychology, and welfare	10,954	1,582	523	561	102	561	553	660	122
Economics	3,261	50	10	22	100	531	505	245	35
Social work	1,445	45	22	3	---	---	---	38	83
Foreign affairs	1,136	377	65	57	---	1	6	7	1
Psychology	968	29	141	24	---	---	3	---	---
Military intelligence research	894	426	228	237	---	---	---	---	---
Recreation	701	183	2	3	---	---	---	5	---
Social science	473	---	1	4	---	24	18	6	3
Welfare work	451	159	---	42	---	---	---	240	---
Intelligence research	336	3	---	3	---	---	---	---	---
Social administration	321	---	---	---	---	---	---	---	---
History	294	104	10	100	2	3	---	41	---
Geography	263	170	6	12	---	2	21	48	---
International relations	210	---	---	---	---	---	---	---	---
Military intelligence analysis	108	33	38	34	---	---	---	---	---
Other	93	3	---	20	---	---	---	30	---
Education	8,172	1,759	625	3,010	142	35	54	1,350	130
Education and training	5,631	665	404	2,613	1	3	8	1,321	118
Training administration and instruction	2,138	1,081	221	364	141	25	32	26	11
Educational research and consultation	403	13	---	33	---	7	14	3	1
Fine and applied arts	5,278	1,672	970	628	37	291	101	387	66
Photography	2,196	752	420	254	17	217	55	123	48
Illustrating	1,436	498	334	269	5	28	35	83	15
Architecture	821	163	138	15	7	11	2	66	3
Motion picture production	409	164	72	70	1	29	3	3	---
Landscape architecture	264	54	6	10	---	6	5	111	---
Fine and applied arts	103	33	---	2	5	---	1	1	---
Other	49	8	---	8	2	---	---	---	---

See footnotes at end of table.

State	Labor	Veterans Adminis- tration	Federal Security Agency	Economic Stabiliza- tion Admin- istration	General Services Adminis- tration	General Accounting Office	All other	Occupational series ^{1/}
60	891	1,592	663	96	58	3	1,057	Mathematics and statistics
14	674	702	281	81	39	3	598	Statistical clerical
15	158	100	163	5	7	---	220	Statistics
---	47	437	184	---	4	---	45	Statistical coding
---	---	---	---	---	---	---	145	Mathematics
---	---	---	---	---	---	---	---	Cryptographic clerical
20	---	---	---	---	---	---	2	Cryptography
3	8	3	21	10	8	---	35	Statistical drafting
8	---	---	---	---	---	---	---	Cryptanalysis
---	---	338	---	---	---	---	5	Actuarial clerical
---	4	12	14	---	---	---	7	Actuary
203	618	1,178	332	376	141	53	2,053	Personnel administration and industrial relations 2/
129	2	392	71	---	93	---	151	Mechanic
---	---	---	---	---	---	---	9	Equipment specialist
3	---	2	8	---	---	---	14	Laboratory electronic mechanic
6	---	6	14	---	---	---	3	Laboratory general mechanic
107	---	---	---	---	---	---	---	Electronics
2	---	---	4	---	---	---	---	Laboratory technician
---	---	---	---	---	---	---	62	Aircraft operation
2	---	32	1	---	6	---	21	Construction and maintenance supervision
---	---	---	24	---	---	---	9	Instrument making
---	---	2	1	---	---	---	---	Mechanical shop supervision
6	---	206	4	---	---	---	1	Motion picture projection
---	---	138	6	---	87	---	---	Building and ground supervision
---	---	---	---	---	---	---	1	Tool and gage designing and construction
---	---	---	2	---	---	---	1	Laboratory machinist
3	2	6	1	---	---	---	6	Exhibits construction
---	---	---	6	---	---	---	24	Other
1,397	786	2,734	416	271	11	---	675	Social science, psychology, and welfare
196	735	7	4	270	5	---	546	Economics
---	---	1,214	36	---	---	---	4	Social work
598	---	---	---	---	---	---	24	Foreign affairs
---	5	734	29	---	---	---	3	Psychology
---	---	---	---	---	---	---	3	Military intelligence research
---	---	488	7	---	---	---	13	Recreation
30	13	288	56	---	---	---	30	Social science
---	---	---	---	---	3	---	7	Welfare work
330	---	---	---	---	---	---	---	Intelligence research
---	33	---	283	---	---	---	5	Social administration
20	---	---	---	1	3	---	10	History
3	---	---	---	---	---	---	1	Geography
209	---	---	---	---	---	---	1	International relations
---	---	---	---	---	---	---	3	Military intelligence analysis
11	---	3	1	---	---	---	25	Other
48	20	660	262	19	2	4	52	Education
15	18	403	37	---	---	---	25	Education and training
14	2	152	20	19	2	4	24	Training administration and instruction
19	---	105	205	---	---	---	3	Educational research and consultation
110	10	302	122	2	153	---	427	Fine and applied arts
31	2	106	67	---	13	---	91	Photography
26	7	30	19	2	5	---	80	Illustrating
---	---	87	24	---	130	---	175	Architecture
47	---	2	12	---	---	---	6	Motion picture production
---	---	13	---	---	2	---	57	Landscape architecture
3	---	49	---	---	2	---	7	Fine and applied arts
3	1	15	---	---	1	---	11	Other

Table B.--Occupational distribution of full-time

Occupational series	1/	: All : : agencies :	: Army :	: Navy :	: Air : : Force :	: Treasury :	: Agri- : : culture :	: Com- : : merce :	: Interior : : Justice :
Library and archives	3,054	957	443	234	12	125	96	55	26
Library	1,719	479	268	143	8	63	65	35	13
Library assistant	844	372	105	87	4	62	31	20	13
Archives	273	31	24	4	---	---	---	---	---
Archives assistant	218	75	46	---	---	---	---	---	---
Veterinary science 3/	1,864	17	---	1	---	1,838	---	---	---
Copyright, patent, and trade-mark 3/.....	1,164	40	93	14	---	5	983	2	5
Miscellaneous occupations, n.e.c.	11,326	1,963	1,063	644	651	416	332	287	2,741
Information and editorial	6,609	1,517	726	516	330	405	311	188	58
Fingerprint identification	1,197	9	10	12	3	---	---	---	1,163
Prison administration	925	17	6	---	---	---	---	---	902
Field deputy marshal	543	2	---	---	---	---	---	---	541
Translator	400	136	12	29	3	8	6	3	28
Marine superintendent	315	119	196	---	---	---	---	---	---
Bond sales promotion	312	---	---	---	312	---	---	---	---
Chaplain	276	---	---	---	---	---	---	---	10
Fire fighting and fire prevention.....	193	44	79	60	---	---	---	---	---
Security administration	133	18	28	11	---	---	1	---	---
Information receptionist and tour leader	129	18	---	---	---	---	11	71	---
Interpreter	72	2	---	13	1	1	---	1	38
Museum aid	62	3	5	---	---	---	---	8	---
Clerk-translator	53	44	---	---	---	2	3	---	1
Museum	49	11	---	2	---	---	---	11	---
Community and regional planning	25	---	1	---	---	---	---	3	---
Automotive traffic control	17	15	---	1	---	---	---	---	---
Funeral directing	11	8	---	---	---	---	---	---	---
Institutional management	3	---	---	---	---	---	---	2	---
Document examining	2	---	---	---	2	---	---	---	---

^{1/} The designations used in the stub of the table are from the Handbook of Occupational Groups and Series of Classes, size order according to 1951 employment.

^{2/} Figures are shown for group totals only, because detailed occupation series are, in most cases, common to all

^{3/} Group totals only are shown since distribution of each detailed occupation by agency is nearly identical with the

Source: Tabulations furnished by U. S. Civil Service Commission.

State	Labor	Veterans	Federal	Economic Stabiliza-	General Services	General	All	Occupational series
		Adminis-	Security	tion Admin-	Adminis-	Accounting	other	
		tration	Agency	istration	tration	Office		
122	20	385	58	---	262	2	257	Library and archives
69	13	358	43	---	7	2	153	Library
20	7	12	15	---	5	---	91	Library assistant
30	---	15	---	---	158	---	11	Archives
3	---	---	---	---	92	---	2	Archives assistant
---	---	1	7	---	---	---	---	Veterinary science 2/
---	---	---	---	---	---	---	22	Copyright, patent, and trade-mark 3/
977	76	706	258	243	93	11	865	Miscellaneous occupations, n.e.c.
829	71	432	233	235	88	10	660	Information and editorial
---	---	---	---	---	---	---	---	Fingerprint identification
---	---	---	---	---	---	---	---	Prison administration
---	---	---	---	---	---	---	---	Field deputy marshal
131	3	12	17	---	---	---	12	Translator
---	---	---	---	---	---	---	---	Marine superintendent
---	---	---	---	---	---	---	---	Bond sales promotion
---	---	260	6	---	---	---	---	Chaplain
---	---	---	---	---	2	---	8	Fire fighting and fire prevention
---	---	---	---	---	---	---	75	Security administration
1	---	---	2	8	---	1	17	Information receptionist and tour leader
14	2	---	---	---	---	---	---	Interpreter
---	---	---	---	---	1	---	45	Museum aid
2	---	---	---	---	---	---	.1	Clerk-translator
---	---	---	---	---	1	---	24	Museum
---	---	---	---	---	1	---	20	Community and regional planning
---	---	---	---	---	---	---	1	Automotive traffic control
---	---	2	---	---	---	---	1	Funeral directing
---	---	---	---	---	---	---	1	Institutional management
---	---	---	---	---	---	---	---	Document examining

published by the U. S. Civil Service Commission. The major occupational groups are presented in descending

agencies and generally show a direct proportion to total employment in the agency.
distribution shown for the group as a whole.

Table C.—Grade distribution and average annual salary of

Occupational series ^{1/}	Total	Grade							
		1	2	3	4	5	6	7	8
Total number	905,902	11,955	141,899	189,547	122,726	92,342	36,026	86,569	16,258
Total percent	100.0	1.3	15.7	20.9	13.5	10.2	4.0	9.6	1.8
General administrative, clerical, and office services	446,796	3,495	115,673	155,385	68,882	34,004	11,708	16,834	4,309
General clerical and administrative	85,732	554	12,255	11,641	13,357	9,872	4,437	8,635	2,215
Organization and methods examining	4,146	---	---	---	---	477	85	755	169
Mail and file	38,551	760	19,225	11,280	4,712	1,534	435	292	50
Records management	19	---	---	1	---	1	1	10	---
Communications coding	392	---	2	53	141	85	80	14	3
Correspondence clerk	3,661	---	---	374	2,063	869	172	109	35
Stenographer	6,038	---	805	3,035	2,035	160	3	---	---
Stenographic unit supervising	274	---	---	47	114	86	21	5	1
Clerk-stenographer	49,631	---	3,771	27,646	17,237	700	70	---	---
Clerk-stenographer unit supervising	165	---	---	3	79	51	27	5	---
Dictating machine transcriber	1,518	---	306	1,170	41	---	---	---	---
Dictating machine transcribing unit supervising	71	---	---	11	32	23	4	---	---
Clerk-dictating machine transcriber	1,087	---	66	927	93	1	---	---	---
Shorthand reporter	497	---	---	---	---	---	300	110	31
Secretary	22,070	---	---	1,158	9,416	8,292	2,163	717	83
Typist	7,857	139	6,940	709	47	3	---	---	---
Typing unit supervising	191	---	15	44	86	42	3	---	1
Clerk-typist	111,343	541	46,217	61,114	---	---	---	---	---
Clerk-typing unit supervising	117	---	2	32	63	20	---	---	---
Varitypist	407	---	42	316	36	13	---	---	---
General supply	6,386	1	183	476	1,218	1,056	389	985	372
Printing and publications	1,392	---	---	384	376	241	61	98	42
Property and stock control	30,152	---	5,242	10,502	7,831	3,241	1,204	967	416
Procurement	8,349	---	---	734	2,392	1,823	630	1,091	298
Storage	20,023	227	5,095	7,943	3,206	1,583	702	483	211
Supply cataloging	2,766	---	---	102	188	671	127	1,014	52
Supply requirements and distribution	3,129	---	---	---	---	1,209	160	811	126
Surplus property disposal	535	---	2	22	99	97	52	88	35
Miscellaneous office appliance operating	386	81	232	42	15	7	2	3	---
Addressing equipment operating	982	70	573	210	91	22	10	4	2
Addressing machine operating	351	5	259	75	11	1	---	---	---
Graphotype operating	317	5	265	28	5	2	1	---	---
Bookkeeping machine operating	2,750	---	811	1,485	320	91	8	2	---
Calculating machine operating	2,303	43	1,091	958	172	31	3	3	---
Card punch operating	8,330	301	4,950	2,572	284	164	30	22	5
Sorting machine operation	184	9	121	43	10	---	1	---	---
Tabulating machine operation	6,133	177	2,432	2,244	786	347	63	60	4
Tabulating equipment operation	4,164	101	796	1,237	696	397	171	369	108
Miscellaneous duplicating equipment operating	1,346	153	820	194	68	32	30	15	7
Mimeograph operating	281	121	140	18	2	---	---	---	---
Multigraph operating	40	---	24	13	1	---	1	1	---
Offset duplicating devices operating	97	---	41	35	4	---	---	---	---
Offset duplicating devices unit supervising	13	---	---	1	2	---	1	5	---
Offset duplicating devices camera operating and platemaking	13	---	---	8	3	---	---	---	---
Offset duplicating devices platemaking	11	---	6	4	---	---	---	---	---
Offset duplicating devices camera operating	3	---	---	2	1	---	---	---	---
Blueprint and photostat operating	388	9	275	70	19	9	1	5	---

See footnotes at end of table.

Grade							: Not : Average :	Occupational series 1/	
9	10	11	12	13	14	15-18	: speci- : annual : : fied : salary :		
64,637 7.1	11,525 1.3	43,256 4.8	31,664 3.5	17,305 1.9	7,267 .8	3,834 .4	29,092 3.2	\$3,700	Total number Total percent
11,405	3,492	5,450	3,960	2,499	1,467	1,093	7,140		General administrative, clerical, and office services
7,045	2,671	3,542	2,777	1,913	1,224	1,013	2,581	3,929	General clerical and administrative
956	99	623	457	291	115	55	64	5,267	Organization and methods examining
65	17	39	6	3	4	2	127	2,812	Mail and file
2	---	3	---	---	---	1	---	4,650	Records management
12	---	2	---	---	---	---	---	3,378	Communications coding
35	2	---	2	---	---	---	---	3,234	Correspondence clerk
---	---	---	---	---	---	---	---	2,895	Stenographer
---	---	---	---	---	---	---	---	3,214	Stenographic unit supervising
---	---	---	---	---	---	---	207	2,907	Clerk-stenographer
---	---	---	---	---	---	---	---	3,321	Clerk-stenographer unit supervising
---	---	---	---	---	---	---	1	2,773	Dictating machine transcriber
1	---	---	---	---	---	---	---	3,208	Dictating machine transcribing unit supervising
---	---	---	---	---	---	---	---	2,828	Clerk-dictating machine transcriber
55	---	1	---	---	---	---	---	4,010	Shorthand reporter
86	1	6	2	---	---	---	---	146	Secretary
---	---	---	---	---	---	---	19	2,583	Typist
---	---	---	---	---	---	---	---	3,068	Typing unit supervising
---	---	---	---	---	---	---	3,471	2,705	Clerk-typist
---	---	---	---	---	---	---	---	3,060	Clerk-typing unit supervising
---	---	---	---	---	---	---	---	2,832	Varitypist
712	216	391	226	98	52	11	---	4,080	General supply
77	15	43	35	14	4	2	---	3,581	Printing and publications
411	95	78	27	8	4	---	126	3,058	Property and stock control
615	142	286	212	52	28	5	41	3,773	Procurement
175	62	71	29	13	5	---	218	2,966	Storage
406	36	92	45	24	9	---	---	4,080	Supply cataloging
398	62	172	114	61	13	3	---	4,224	Supply requirements and distribution
74	11	24	6	18	6	1	---	4,145	Surplus property disposal
2	---	2	---	---	---	---	---	2,619	Miscellaneous office appliance operating
---	---	---	---	---	---	---	---	2,687	Addressing equipment operating
---	---	---	---	---	---	---	---	2,634	Addressing machine operating
---	---	---	---	---	---	---	11	2,600	Graphotype operating
3	---	2	---	---	---	---	28	2,801	Bookkeeping machine operating
2	---	---	---	---	---	---	---	2,720	Calculating machine operating
2	---	---	---	---	---	---	---	2,678	Card punch operating
---	---	---	---	---	---	---	---	2,648	Sorting machine operation
10	2	6	2	---	---	---	---	2,801	Tabulating machine operation
171	52	45	13	2	---	---	6	3,214	Tabulating equipment operation
15	1	4	1	---	---	---	6	2,710	Miscellaneous duplicating equipment operating
---	---	---	---	---	---	---	---	2,469	Mimeograph operating
---	---	---	---	---	---	---	---	2,728	Multigraph operating
---	---	---	---	---	---	---	17	2,702	Offset duplicating devices operating
3	---	---	1	---	---	---	---	4,197	Offset duplicating devices unit supervising
---	---	---	---	---	---	---	2	2,898	Offset duplicating devices camera operating and platemaking
---	---	---	---	---	---	---	1	2,665	Offset duplicating devices platemaking
---	---	---	---	---	---	---	---	2,915	Offset duplicating devices camera operating
---	---	---	---	---	---	---	---	2,670	Blueprint and photostat operating

Table C.--Grade distribution and average annual salary of full-time

Occupational series	Total	Grade							
		1	2	3	4	5	6	7	8
Photostat operating	244	7	171	51	7	4	---	2	---
Blueprint operating	620	101	399	89	11	2	1	---	---
Microphotography	552	51	292	143	31	16	6	7	4
Telephone and telegraph operating	177	---	52	80	40	3	1	1	---
Telephone and telegraph communications service supervising	94	---	---	---	---	24	23	18	8
Telephone operating	6,558	38	1,568	4,086	492	213	85	21	4
Telephone communication service supervising	80	---	---	16	34	11	7	9	---
Telegraph operating	48	---	---	14	9	2	13	6	4
Telegraphic-typewriter operating	3,267	1	162	1,880	733	343	84	44	9
Fire alarm telegraph and telephone operating	43	---	3	12	17	10	1	---	---
Telegraph and code service supervising, White House..	1	---	---	---	---	---	---	---	---
Radio and telegraph operating..	175	---	---	34	59	42	9	7	2
Radio operating	346	---	22	17	97	81	30	41	12
Accounting and fiscal	77,428	2	1,987	10,913	23,261	10,091	4,092	7,128	1,665
Accounting and fiscal clerical.	27,091	1	762	4,714	9,860	4,452	1,549	2,118	616
Business accounting	5,474	---	---	---	---	366	60	1,151	61
Government accounting	2,765	---	---	---	---	262	76	427	69
Internal revenue agent	7,704	---	---	---	---	12	---	1,358	---
Accounting investigating (G.A.O.)	253	---	---	---	---	4	2	25	---
Cash accounting	4,510	1	542	1,586	1,126	734	253	133	79
Voucher examining	5,924	---	---	852	3,247	1,088	254	282	76
Fiscal auditing (G.A.O.)	1,389	---	---	145	189	549	139	176	33
Transportation rate auditing..	898	---	---	1	33	114	180	148	210
Payroll	1,643	---	44	300	983	162	37	20	7
Time, leave, and payroll	4,696	---	---	722	2,900	615	235	146	54
Military pay	4,225	---	224	1,589	1,861	395	88	47	14
Military time, pay, and leave...	3	---	---	---	2	---	1	---	---
Benefit-payment roll	2,212	---	2	34	1,801	73	167	53	54
Budget administration	1,779	---	---	---	---	182	66	292	54
Time and leave	1,749	---	413	938	262	49	29	4	---
Military time and leave	14	---	---	1	10	2	---	---	1
Tax accounting	5,099	---	---	31	987	1,032	956	748	337
Engineering	71,260	632	2,395	3,324	4,426	8,809	4,060	10,393	390
General engineering	2,773	---	---	---	---	67	9	132	12
Engineering aid	11,223	181	1,055	1,536	2,506	2,070	1,662	1,579	17
Safety engineering	516	---	---	---	---	9	---	28	7
Fire prevention engineering ...	81	---	---	---	---	3	---	2	1
Maintenance engineering	157	---	---	---	---	1	---	7	---
Materials engineering	836	---	---	---	---	34	9	146	7
Architectural engineering	570	---	---	---	---	17	8	57	3
Civil engineering	6,265	---	---	---	---	317	11	1,098	61
Construction engineering	3,450	---	---	---	---	155	6	454	10
Structural engineering.....	980	---	---	---	---	29	5	164	7
Hydraulic engineering.....	1,949	---	---	---	---	187	18	444	10
Surveying and cartographic engineer	1,632	2	6	---	1	233	4	437	8
Surveying and cartography	4,499	175	411	752	623	876	419	506	118
Cartographic drafting	2,001	147	450	439	278	305	219	142	6
Engineering drafting	6,851	127	473	597	918	1,510	1,535	1,260	42
Highway engineering	814	---	---	---	---	66	---	100	1
Highway research engineering...	38	---	---	---	---	---	---	1	---
Highway design engineering	68	---	---	---	---	2	---	17	---
Highway construction and maintenance engineering...	176	---	---	---	---	---	---	7	---
Bridge engineering	139	---	---	---	---	---	---	1	---
Traffic engineering	4	---	---	---	---	---	---	---	---
Mechanical engineering	6,041	---	---	---	---	811	23	866	22
Automotive engineering	88	---	---	---	---	1	---	5	---
Automotive research, develop- ment, and design engineering.....	305	---	---	---	---	48	---	37	1

See footnotes at end of table.

Grade							Not : speci- : fied :	Average : annual : salary :	Occupational series ^{1/}
9	10	11	12	13	14	15-18			
---	---	---	---	---	---	---	2	\$2,654	Photostat operating
---	---	---	---	---	---	---	17	2,573	Blueprint operating
2	---	---	---	---	---	---	---	2,713	Microphotography
---	---	---	---	---	---	---	---	2,829	Telephone and telegraph operating
---	---	---	---	---	---	---	---	---	Telephone and telegraph communications service supervising
10	1	5	2	1	2	---	---	4,247	Telephone operating
1	---	1	---	---	---	---	49	2,811	Telephone communication service supervising
1	2	---	---	---	---	---	---	3,328	Telegraph operating
---	---	---	---	---	---	---	---	3,469	Telegraphic-typewriter operating
5	4	1	1	---	---	---	---	2,984	Fire alarm telegraph and telephone operating
---	---	---	---	---	---	---	---	3,059	Telegraph and code service supervising, White House
1	---	---	---	---	---	---	---	4,895	Radio and telegraph operating
8	---	10	2	1	1	---	---	3,531	Radio operating
44	1	1	---	---	---	---	---	3,580	Accounting and fiscal
6,369	994	5,148	2,915	1,609	586	241	427	3,492	Accounting and fiscal clerical
1,210	367	604	335	146	46	40	271	5,318	Business accounting
1,436	138	1,141	618	324	135	44	---	5,557	Government accounting
556	84	473	389	253	118	58	---	5,501	Internal revenue agent
2,293	---	2,391	1,104	440	82	24	---	6,105	Accounting investigating (G.A.O.)
59	---	67	36	38	15	7	---	3,096	Cash accounting
30	5	10	6	1	---	---	4	3,246	Voucher examining
83	19	18	5	---	---	---	---	3,706	Fiscal auditing (G.A.O.)
50	23	59	11	7	7	1	---	4,328	Transportation rate auditing
55	103	35	13	3	2	1	---	3,097	Payroll
3	---	---	---	---	---	---	87	3,182	Time, leave, and payroll
17	5	2	---	---	---	---	---	3,024	Military pay
5	2	---	---	---	---	---	---	3,316	Military time, pay, and leave
---	---	---	---	---	---	---	---	3,237	Benefit-payment roll
19	5	3	1	---	---	---	---	5,603	Budget administration
316	43	260	215	192	95	50	14	2,841	Time and leave
2	---	---	---	1	---	---	51	3,216	Military time and leave
---	---	---	---	---	---	---	---	4,170	Tax accounting
235	200	85	182	204	86	16	---	2,166	Engineering
10,794	285	10,844	7,432	3,762	1,170	378	122	6,487	General engineering
439	22	581	601	463	239	86	411	3,315	Engineering aid
74	2	30	---	---	---	---	---	5,775	Safety engineering
147	14	162	94	42	8	5	---	6,231	Fire prevention engineering
8	1	22	33	9	1	1	---	6,176	Maintenance engineering
33	4	39	42	27	3	1	---	5,465	Materials engineering
207	9	192	128	61	12	3	28	5,782	Architectural engineering
94	8	188	138	46	11	---	---	5,497	Civil engineering
1,416	50	1,300	821	420	161	57	553	5,674	Construction engineering
842	28	836	663	310	78	18	50	5,428	Structural engineering
268	5	290	157	40	14	1	---	5,208	Hydraulic engineering
450	17	367	260	113	22	8	53	4,982	Surveying and cartographic engineer
414	7	239	168	83	27	3	---	3,489	Surveying and cartography
396	13	145	---	---	---	---	65	3,065	Cartographic drafting
11	---	4	---	---	---	---	---	101	Engineering drafting
255	6	27	---	---	---	---	---	5,744	Highway engineering
170	---	204	133	114	16	10	---	6,058	Highway research engineering
9	---	14	9	4	---	1	---	5,802	Highway design engineering
4	---	12	29	3	---	1	---	5,803	Highway construction and maintenance engineering
60	---	54	43	7	4	1	---	6,262	Bridge engineering
24	---	43	51	18	1	1	---	6,546	Traffic engineering
1	---	---	2	1	---	---	---	5,227	Mechanical engineering
1,408	36	1,556	806	290	58	14	151	5,826	Automotive engineering
37	2	15	16	7	2	3	---	5,407	Automotive research, develop- ment, and design engineering
74	---	62	49	24	6	4	---	---	

Table C.--Grade distribution and average annual salary of full-time

Occupational series ^{1/}	Total	Grade							
		1	2	3	4	5	6	7	8
Internal combustion power plant research, development, and design engineering	269	----	----	----	----	43	----	45	----
Ordnance engineering	1,436	----	----	----	----	127	17	161	17
Ordnance design engineering...	642	----	----	----	----	23	20	93	6
Electrical engineering	4,676	----	----	----	----	514	60	679	13
Electronic engineering	5,421	----	----	----	----	543	12	816	6
Signal engineering	14	----	----	----	----	----	----	3	1
Aeronautical engineering	849	----	----	----	----	75	4	101	----
Aeronautical research, development, and design engineering	574	----	----	----	----	39	1	77	2
Airways engineering	312	----	----	----	----	16	1	19	----
Marine engineering	636	----	----	----	----	48	----	49	7
Naval architecture	1,239	----	----	----	----	215	----	93	1
Mining engineering	381	----	----	----	----	10	----	31	----
Petroleum production and natural gas engineering..	193	----	----	----	----	16	----	25	----
Agricultural engineering	849	----	----	----	----	166	----	402	----
Ceramic engineering	55	----	----	----	----	5	----	22	----
Chemical engineering	1,093	----	----	----	----	115	8	183	3
Welding engineering	66	----	----	----	----	3	----	8	----
Industrial engineering	876	----	----	----	----	103	9	86	1
Valuation engineering	219	----	----	----	----	7	----	10	----
Lighthouse engineering	4	----	----	----	----	----	----	----	----
Medical, hospital, dental, and public health	66,467	7,248	18,273	5,875	3,527	7,221	752	2,338	81
Medical officer	5,020	----	----	----	----	----	----	----	----
Nurse	18,446	----	----	----	----	3,867	25	685	4
Public health nurse	89	----	----	----	----	4	----	64	----
Trained practical nurse	594	10	6	250	261	51	----	16	----
Hospital attendant	29,215	7,110	17,110	3,954	858	127	48	----	----
First-aid attendant	46	----	7	17	14	6	1	1	----
Morgue attendant	54	2	5	44	1	1	1	----	----
Embalmer	5	----	1	----	----	----	2	2	----
Dietitian	922	----	----	----	----	297	13	296	25
Occupational therapist	518	----	----	----	----	297	----	145	4
Occupational therapy aid	405	----	89	167	146	1	----	2	----
Physical therapist	846	----	----	----	----	396	2	315	6
Physical therapy aid	547	----	61	313	138	22	9	4	----
Exercise therapist	188	----	----	----	----	89	----	72	1
Medical technician	2,738	33	153	208	1,021	1,043	214	45	2
Histopathology technician	185	----	5	15	43	82	30	6	----
Medical X-ray technician	1,295	14	29	101	629	428	79	15	----
Electrocardiograph technician..	171	----	8	44	108	10	1	----	----
Medical technical assistant...	124	----	1	5	11	11	2	57	16
Electroencephalograph technician	88	----	----	4	73	10	1	----	----
Pharmacist	524	----	----	----	----	67	6	374	15
Pharmacy helper	119	16	86	12	5	----	----	----	----
Optometrist	45	----	----	----	----	8	1	24	1
Prosthetic technician	7	----	----	----	3	----	2	1	----
Audiology and speech correction	42	----	----	----	----	1	----	19	----
Audiology technician	3	----	----	1	2	----	----	----	----
Orthopedic technician	327	----	5	12	34	108	96	37	1
Chiropodist	10	----	----	----	----	3	7	----	----
Medical records librarian	37	----	----	----	----	7	----	9	3
Hospital administration	199	----	----	----	----	----	----	17	1
Dental officer	1,080	----	----	----	----	----	----	----	----
Dental assistant	1,377	63	703	591	11	5	3	----	----
Dental hygiene	248	----	----	119	125	4	----	----	----
Dental technician	603	----	4	18	44	272	209	55	1
Public health administration..	278	----	----	----	----	4	----	77	1
Food and drug officer	72	----	----	----	----	----	----	----	----

See footnotes at end of table.

Grade							Not	Average	Occupational series ^{1/}
9	10	11	12	13	14	15-18	speci- fied	annual salary	
									Internal combustion power plant research, develop- ment, and design engineering
28	----	32	65	38	16	2	----	\$5,768	
323	15	376	226	113	43	18	----	5,582	Ordnance engineering
96	6	129	148	77	36	8	----	5,932	Ordnance design engineering
962	11	971	583	256	61	21	545	5,279	Electrical engineering
1,213	10	1,369	915	405	103	29	----	5,463	Electronic engineering
2	----	2	6	----	----	----	----	5,590	Signal engineering
162	----	197	160	101	38	11	----	5,808	Aeronautical engineering
									Aeronautical research, development, and design engineering
51	1	116	175	77	31	4	----	6,069	
35	----	65	62	82	24	8	----	6,548	Airways engineering
150	----	204	109	55	11	3	----	5,639	Marine engineering
299	2	332	176	93	22	6	----	5,369	Naval architecture
43	----	102	88	63	28	15	1	6,463	Mining engineering
									Petroleum production and natural gas engineering
35	1	44	35	25	7	5	----	5,864	
160	----	64	42	11	----	----	4	4,414	Agricultural engineering
8	----	12	6	1	1	----	----	4,939	Ceramic engineering
186	1	222	167	97	26	13	72	5,508	Chemical engineering
13	----	16	18	5	3	----	----	5,838	Welding engineering
163	14	162	164	115	44	15	----	5,821	Industrial engineering
23	----	45	43	66	13	2	10	6,609	Valuation engineering
1	----	2	1	----	----	----	----	5,735	Lighthouse engineering
									Medical, hospital, dental, and public health
667	112	434	808	319	130	46	18,636		
----	----	118	639	168	75	32	3,988	7,089	Medical officer
131	1	11	4	3	----	1	13,714	3,527	Nurse
1	----	10	9	1	----	----	----	4,570	Public health nurse
----	----	----	----	----	----	----	----	3,013	Trained practical nurse
----	----	----	----	----	----	----	8	2,552	Hospital attendant
----	----	----	----	----	----	----	----	2,984	First-aid attendant
----	----	----	----	----	----	----	----	2,811	Morgue attendant
----	----	----	----	----	----	----	----	3,660	Embalmer
131	1	133	25	1	----	----	----	4,293	Dietitian
58	5	8	1	----	----	----	----	3,812	Occupational therapist
----	----	----	----	----	----	----	----	2,872	Occupational therapy aid
116	1	9	1	----	----	----	----	3,892	Physical therapist
----	----	----	----	----	----	----	----	2,910	Physical therapy aid
22	----	2	1	1	----	----	----	3,902	Exercise therapist
1	----	----	----	----	----	----	18	3,207	Medical technician
3	----	1	----	----	----	----	----	3,365	Histopathology technician
----	----	----	----	----	----	----	----	3,194	Medical X-ray technician
----	----	----	----	----	----	----	----	3,021	Electrocardiograph technician
7	----	11	2	1	----	----	----	4,198	Medical technical assistant
----	----	----	----	----	----	----	----	3,124	Electroencephalograph technician
56	1	3	2	----	----	----	----	4,133	Pharmacist
----	----	----	----	----	----	----	----	2,573	Pharmacy helper
6	----	5	----	----	----	----	----	4,265	Optometrist
1	----	----	----	----	----	----	----	3,685	Prosthetic technician
									Audiology and speech correction
15	1	3	3	----	----	----	----	4,690	
----	----	----	----	----	----	----	----	3,004	Audiology technician
26	----	4	3	1	----	----	----	3,698	Orthopedic technician
----	----	----	----	----	----	----	----	3,631	Chiroprapist
15	----	2	1	----	----	----	----	4,477	Medical records librarian
11	1	6	37	95	26	5	----	7,314	Hospital administration
10	101	71	3	----	----	----	895	6,083	Dental officer
----	----	----	----	----	----	----	1	2,670	Dental assistant
----	----	----	----	----	----	----	----	2,971	Dental hygiene
----	----	----	----	----	----	----	----	3,526	Dental technician
56	----	22	56	38	9	3	12	5,719	Public health administration
1	----	15	21	10	20	5	----	7,568	Food and drug officer

Table C.--Grade distribution and average annual salary of full-time

Occupational series ^{1/}	Total	Grade							
		1	2	3	4	5	6	7	8
Inspection and investigation	57,210	1	157	1,275	1,961	4,682	6,148	16,986	6,345
General investigating	5,421	---	---	15	112	197	156	1,580	242
Criminal investigating	9,101	---	---	---	---	10	53	350	677
Game law enforcement	106	---	---	1	---	2	1	40	---
Safety inspection	615	---	---	6	4	67	70	303	49
Airworthiness inspection	294	---	---	---	---	---	---	---	---
Coal mine inspection	234	---	---	---	---	---	---	---	---
Clothing inspection	204	---	11	4	37	1	10	124	1
Textile inspection	329	---	---	23	1	10	25	229	19
Cotton classing	91	---	---	---	---	2	---	4	---
Dairy and poultry inspection and grading	70	---	---	---	---	2	---	45	---
Fresh fruit and vegetable inspection	145	---	---	---	---	---	---	76	---
Grain inspection supervising...	200	---	---	---	---	62	---	58	---
Meat grading	551	---	---	---	---	2	---	203	---
Processed fruit and vegetable inspection	307	---	---	---	---	152	---	112	---
Tobacco inspecting and grading.	89	---	---	---	---	11	---	8	---
Wool classing	3	---	---	---	2	---	---	---	---
Tax collection	10,230	---	---	---	---	1,393	2,057	2,523	1,836
Alcohol tax inspection	571	---	---	---	---	---	---	119	140
Storekeeper-gauger	1,486	---	---	---	---	---	105	1,264	85
Public health inspection	54	---	1	---	2	12	8	8	21
Food and drug inspection	275	---	---	---	---	72	---	64	---
Imported food and drug examining	17	---	---	---	1	2	11	1	---
Food inspection	2,179	---	---	205	413	570	376	506	85
Public health quarantine inspection	256	---	---	---	11	99	17	22	3
Construction inspection	3,076	---	---	102	190	382	578	1,226	184
Aircraft inspection	1,725	---	---	---	1	22	82	647	614
Aircraft engine inspection	491	---	---	---	---	9	42	207	133
Aircraft propeller inspection..	51	---	---	---	---	---	3	13	25
Shipbuilding inspection	489	---	---	---	---	2	1	24	182
Ammunition inspection	923	---	---	---	204	234	164	159	43
Mechanical inspection	561	---	---	4	4	28	80	255	85
Electrical inspection	326	---	---	2	13	11	31	202	31
Plumbing inspection	4	---	---	---	---	---	---	2	---
Elevator inspection	5	---	---	---	---	---	---	---	3
Street light overhead lines inspection	10	---	---	---	7	2	---	1	---
Meter and gas inspector	3	---	---	1	1	---	---	1	---
Customs inspector	2,680	---	---	---	---	---	257	2,175	98
Customs examining and appraising	977	---	---	133	287	75	40	104	84
Customs marine officers	122	---	---	---	1	4	11	12	48
Customs entry and liquidating..	793	---	---	---	44	62	139	47	106
Customs warehouse officer	230	---	---	---	---	---	223	1	3
Immigration patrol inspection..	1,132	---	---	---	---	---	329	623	148
Weights and measures inspection	1	---	---	---	---	---	---	1	---
Admeasurement	41	---	---	---	---	3	---	5	7
Miscellaneous inspection and investigation	10,742	1	145	779	626	1,182	1,279	3,642	1,393
Legal and kindred	29,127	---	---	1,226	3,651	3,104	2,313	3,880	866
Trial attorney	2,853	---	---	---	---	7	---	143	5
Estate tax examiner	398	---	---	---	---	2	1	23	---
Hearing examiner	306	---	---	---	---	---	1	2	2
Attorney trial examining	79	---	---	---	---	---	---	---	---
Deportation examiner	112	---	---	---	---	---	---	---	---
Naturalization examiner	155	---	---	---	---	---	---	---	---
Clerk of court	6	---	---	---	---	---	3	---	---
Docket clerk	451	---	---	81	199	139	15	8	3
Legal administration	58	---	---	---	---	---	1	4	---
Legal assistance	729	---	---	---	---	---	3	16	20
Adjudicating	2,394	---	---	---	---	21	33	104	4
Claims examining	9,302	---	---	836	2,070	1,672	1,879	819	442

See footnotes at end of table.

Grade							Not speci- fied	Average annual salary	Occupational series ^{1/}
9	10	11	12	13	14	15-18			
8,010	3,852	3,214	3,191	1,062	182	53	91		Inspection and investigation
1,752	172	693	306	129	44	22	1	\$4,865	General investigating
840	2,575	1,332	2,323	772	123	24	22	5,837	Criminal investigating
55			5	1	1			4,698	Game law enforcement
80	7	9	3	1			16	4,165	Safety inspection
22		62	135	66	8	1		6,712	Airworthiness inspection
100		84	49	1				5,580	Coal mine inspection
13	2		1					3,879	Clothing inspection
17	2		3					4,070	Textile inspection
17		29	36	3				5,906	Cotton classing
									Dairy and poultry inspection
18		3	2					4,440	and grading
									Fresh fruit and vegetable
43		11	12	3				4,764	inspection
39		30	11					4,414	Grain inspection supervising
306	8	25	6	1				4,671	Meat grading
									Processed fruit and vegetable
30		8	4	1				3,905	inspection
35		19	13	3				5,176	Tobacco inspecting and grading
				1				4,699	Wool classing
2,036	327	48	5	4	1			4,214	Tax collection
215	71	14	12					4,743	Alcohol tax inspection
12	15	5						4,141	Storekeeper-gauger
	2							4,027	Public health inspection
75		50	14					4,551	Food and drug inspection
									Imported food and drug
2								3,822	examining
21		3						3,566	Food inspection
									Public health quarantine
103		1						4,078	inspection
402	8	3	1					3,981	Construction inspection
168	92	47	32	17	2	1		4,509	Aircraft inspection
34	43	11	9	3				4,441	Aircraft engine inspection
6	2	2						4,493	Aircraft propeller inspection
173	55	42	9	1				4,857	Shipbuilding inspection
60	21	27	8	3				3,810	Ammunition inspection
71	21	9	3	1				4,258	Mechanical inspection
25	8	2	1					4,154	Electrical inspection
2								4,508	Plumbing inspection
2								4,672	Elevator inspection
									Street light overhead
								3,252	lines inspection
								3,339	Meter and gas inspector
80	32	26	8	2		2		4,167	Customs inspector
									Customs examining and
74	24	66	71	14	2	3		4,072	appraising
20	15	3	7	1				4,695	Customs marine officers
133	63	178	17	4				4,640	Customs entry and liquidating
3								3,777	Customs warehouse officer
16	4	12						4,098	Immigration patrol inspection
									Weights and measures
								4,087	inspection
17	7	1	1					4,745	Admeasurement
									Miscellaneous inspection and
893	276	359	84	30	1		52	4,046	investigation
4,864	540	2,630	2,599	1,768	1,039	592	55		Legal and kindred
551	16	463	555	599	341	173		6,803	Trial attorney
55		135	141	40	1			6,071	Estate tax examiner
18		25	55	87	89	27		7,830	Hearing examiner
6		2	14	12	38	7		8,191	Attorney trial examining
8		103	1					5,644	Deportation examiner
136		18	1					4,999	Naturalization examiner
1				2				5,347	Clerk of court
4		2						3,218	Docket clerk
		2	6	17	14	14		8,272	Legal administration
34	2	45	488	101	15	5		6,676	Legal assistance
1,209	241	614	115	38	11	4		5,234	Adjudicating
1,324	137	59	38	18	7	1		3,744	Claims examining

Table C.--Grade distribution and average annual salary of full-time

Occupational series	Total	Grade							
		1	2	3	4	5	6	7	8
Contact representative	2,254	---	---	7	136	139	5	1,197	225
Legal examining	1,810	---	---	66	385	540	180	166	40
Insurance examining	1,327	---	---	38	723	268	61	72	17
Land law clerical and administrative	114	---	---	21	28	32	3	15	1
Immigration inspector	886	---	---	---	---	---	38	778	67
Attorney adviser	4,049	---	---	---	---	49	4	315	8
Legislative attorney	103	---	---	---	---	2	---	---	---
Attorney editor	25	---	---	---	---	2	---	8	---
General attorney	523	---	---	---	---	---	---	27	1
Legal clerical and administrative	1,193	---	---	177	110	231	86	183	31
Biological sciences	25,988	197	1,587	2,267	3,241	4,186	687	6,924	22
Biology	314	---	---	---	---	67	1	76	1
Biological aid	745	64	161	158	226	102	20	10	---
Microbiology	24	---	---	---	---	1	---	9	---
Medical biology technician	511	70	79	110	94	107	31	15	1
Pharmacology	68	---	---	---	---	2	---	11	---
Agriculture extension	211	---	---	---	---	17	---	79	---
Agronomy	297	---	---	---	---	5	---	49	1
Agriculture aid	421	14	99	99	84	74	25	16	---
Zoology	11	---	---	---	---	---	---	1	---
Systematic zoology	21	---	---	---	---	1	---	2	---
Parasitology	86	---	---	---	---	8	---	23	---
Animal physiology	100	---	---	---	---	7	---	23	---
Entomology	515	---	---	---	---	40	1	91	---
Nematology	17	---	---	---	---	2	---	6	---
Bacteriology	584	---	---	---	---	75	1	154	2
Plant disease and insect control	548	13	19	40	107	151	45	159	---
Botany	62	---	---	---	---	3	---	17	1
Mycology	33	---	---	1	---	1	---	6	---
Herbarium aid	10	3	3	1	3	---	---	---	---
Plant taxonomy	2	---	---	---	---	---	---	---	---
Plant pathology	219	---	---	---	---	5	---	40	---
Plant physiology	79	---	---	---	---	2	---	14	---
Plant quarantine inspection	296	---	---	---	---	3	---	163	---
Horticulture	90	---	---	---	---	3	---	10	---
Gardening	101	2	5	18	21	34	10	8	---
Tree culture	24	---	4	5	2	12	---	1	---
Genetics	35	---	---	---	---	---	---	7	---
General agricultural administration	143	---	---	---	---	---	---	---	---
General agriculture	2,734	---	---	---	---	466	---	1,568	---
Park naturalist	52	---	---	---	---	9	---	15	---
Park ranger	322	---	---	---	9	159	63	50	15
Range management and conservation	398	---	---	---	---	91	1	98	1
Range management and conservation aid	80	1	3	23	24	14	6	8	---
Forest and range fire control...	3,894	13	901	1,457	884	389	219	28	---
Soil conservation	4,237	---	---	---	---	497	---	2,724	---
Soil conservation aid	2,104	---	110	---	1,257	726	10	1	---
Forestry	2,183	---	---	---	---	251	2	424	---
Forestry research	332	---	---	---	---	32	---	72	---
Forestry aid	1,418	5	64	273	475	356	190	40	---
Soil science	1,266	---	---	---	---	301	---	624	---
Fish culture	317	12	122	51	29	22	44	23	---
Fishery management	28	---	---	---	---	---	---	1	---
Fishery research biology	160	---	---	---	---	27	---	48	---
Fishery aid	70	---	11	16	23	17	2	---	---
Predator and rodent control	85	---	---	---	---	6	11	32	---
Wildlife management	135	---	---	---	---	39	---	41	---
Wildlife research biology	136	---	---	---	---	12	---	27	---
Husbandry	98	---	---	---	---	6	---	13	---
Agricultural technology	38	---	6	16	3	1	5	---	---
Dairy manufacturing technology..	19	---	---	---	---	1	---	4	---
Fishery products technology	8	---	---	---	---	---	---	1	---
Home economics	280	---	---	---	---	40	---	88	---
Microanalysis	25	---	---	---	---	1	---	4	---
Meat technology	2	---	---	---	---	1	---	---	---

See footnotes at end of table.

Grade							Not speci- fied	Average annual salary	Occupational series ^{1/}
9	10	11	12	13	14	15-18			
442	68	19	12	2	1	1	----	\$4,268	Contact representative
361	7	58	6	1	----	----	----	3,825	Legal examining
39	2	61	36	6	2	2	----	3,565	Insurance examining
7	1	6	----	----	----	----	----	3,551	Land law clerical and administrative
----	----	3	----	----	----	----	----	4,141	Immigration inspector
439	12	815	997	753	366	257	34	6,742	Attorney adviser
7	----	11	27	22	16	18	----	7,706	Legislative attorney
6	1	5	2	1	----	----	----	4,942	Attorney editor
70	----	101	69	52	130	59	14	7,299	General attorney
147	53	83	36	17	8	24	7	4,220	Legal clerical and administrative
3,060	22	1,767	1,115	553	177	72	111	-----	Biological sciences
30	1	44	37	28	13	7	9	5,286	Biology
----	----	----	----	----	----	----	4	2,923	Biological aid
4	----	1	4	3	2	----	----	5,601	Microbiology
3	----	1	----	----	----	----	----	2,997	Medical biology technician
10	----	12	17	11	4	1	----	6,124	Pharmacology
20	----	20	48	19	7	1	----	5,411	Agriculture extension
102	----	59	60	19	2	----	----	5,487	Agronomy
1	----	----	----	----	----	----	9	3,009	Agriculture aid
1	----	2	1	5	1	----	----	6,867	Zoology
4	----	7	2	4	1	----	----	5,938	Systematic zoology
17	----	21	6	7	2	2	----	5,325	Parasitology
10	----	18	18	15	6	3	----	5,945	Animal physiology
141	----	115	89	31	5	1	1	5,360	Entomology
5	----	1	2	1	----	----	----	4,867	Nematology
160	3	94	47	34	5	9	----	5,060	Bacteriology
9	----	3	2	----	----	----	----	3,519	Plant disease and insect control
15	1	10	9	4	1	----	1	5,256	Botany
13	----	6	3	2	2	----	----	5,443	Mycology
----	----	----	----	----	----	----	----	2,681	Herbarium aid
----	----	2	----	----	----	----	----	5,672	Plant taxonomy
57	----	54	41	17	5	----	----	5,582	Plant pathology
16	----	16	16	14	1	----	----	5,828	Plant physiology
80	----	35	7	7	1	----	----	4,676	Plant quarantine inspection
24	----	21	18	11	3	----	----	5,810	Horticulture
3	----	----	----	----	----	----	----	3,295	Gardening
----	----	----	----	----	----	----	----	3,138	Tree culture
5	----	7	9	6	----	1	----	6,061	Genetics
----	----	----	33	38	39	33	----	8,621	General agricultural administration
289	----	236	82	15	13	2	13	4,365	General agriculture
13	1	8	4	1	1	----	----	4,813	Park naturalist
19	3	4	----	----	----	----	----	3,736	Park ranger
104	----	52	33	16	2	----	----	4,747	Range management and conservation
----	1	----	----	----	----	----	----	3,212	Range management and conservation aid
2	----	1	----	----	----	----	----	2,939	Forest and range fire control
592	----	265	85	60	11	3	----	4,362	Soil conservation
----	----	----	----	----	----	----	----	3,163	Soil conservation aid
861	----	240	233	98	22	4	48	5,042	Forestry
75	----	49	62	27	14	1	----	5,479	Forestry research
----	----	----	----	----	----	----	15	3,200	Forestry aid
169	----	110	45	15	2	----	----	4,323	Soil science
5	----	3	6	----	----	----	----	3,120	Fish culture
9	----	5	6	5	2	----	----	6,230	Fishery management
39	1	26	14	4	1	----	----	4,796	Fishery research biology
----	----	1	----	----	----	----	----	3,069	Fishery aid
16	----	17	3	----	----	----	----	4,571	Predator and rodent control
19	----	24	6	3	1	----	2	4,530	Wildlife management
27	5	47	11	5	2	----	----	5,208	Wildlife research biology
18	----	30	17	10	3	1	----	5,738	Husbandry
----	----	----	5	----	----	----	2	3,494	Agricultural technology
7	----	----	4	3	----	----	----	5,491	Dairy manufacturing technology
----	----	3	3	----	1	----	----	6,299	Fishery products technology
61	6	38	22	13	2	3	7	4,916	Home economics
5	----	9	4	2	----	----	----	5,518	Microanalysis
----	----	----	1	----	----	----	----	5,058	Meat technology

Table C.--Grade distribution and average annual salary of full-time

Occupational series ^{1/}	Total	Grade							
		1	2	3	4	5	6	7	8
Physical sciences	21,595	294	413	713	1,221	4,150	459	3,939	39
Physical science, n.e.c.	1,806	----	----	2	4	153	----	241	10
Physical science									
administration	517	----	----	----	----	24	5	11	1
Physics	3,067	----	----	----	----	708	1	601	3
Physical science aid	3,107	39	275	566	974	699	246	236	6
Electronic research,									
development, and test	1,901	----	----	----	----	338	2	353	----
Geophysical exploration,									
survey, and investigation.	77	----	----	----	----	18	----	9	----
Chemistry	4,346	----	----	----	----	762	7	992	12
Metallurgy	525	----	----	----	----	49	2	79	3
Astronomy	39	----	----	----	----	7	----	6	----
Meteorology	1,797	----	----	----	----	17	----	800	----
Meteorological aid	1,496	----	----	77	151	1,008	185	67	----
Geology	1,211	----	----	----	----	196	1	314	2
Nautical science	239	----	----	----	----	27	1	96	----
Technology	789	----	----	----	74	----	----	122	2
Paper technology	4	----	----	1	----	----	2	1	----
Firearms identification	3	----	----	----	----	----	----	----	----
Document analysis	29	----	----	----	----	----	----	----	----
Laboratory helper	642	255	138	67	92	70	7	11	----
Business and industry	21,318	----	3	593	1,399	1,279	570	2,668	817
Contract specialist	890	----	----	----	----	18	12	111	56
Air transport examining	67	----	----	----	----	2	----	12	----
Traffic management	4,818	----	3	589	1,363	842	386	487	257
Transportation rate									
examining	251	----	----	1	2	4	3	68	50
Communication specialist	166	----	----	----	11	23	13	33	13
Communications rate									
examining	9	----	----	1	----	1	----	2	----
Public utilities specialist....	27	----	----	----	----	2	----	2	----
Natural gas and electric									
rate examining	5	----	----	----	----	2	----	1	----
Business analyst	2,450	----	----	----	----	70	6	216	3
Agricultural marketing									
specialist	578	----	----	----	----	23	1	109	----
Market news reporting	108	----	----	----	1	16	1	31	----
Warehouse examiner	78	----	----	----	----	2	----	47	----
Industrial specialist	4,009	----	----	----	----	71	35	515	127
Commodity industry analyst	1,655	----	----	----	----	54	7	145	20
Production specialist	1,863	----	----	2	22	64	91	456	199
Laundry and dry cleaning									
plant management	33	----	----	----	----	----	----	----	----
General finance	1,210	----	----	----	----	30	2	88	2
Loan examination	324	----	----	----	----	2	----	155	----
Appraising and assessing	1,426	----	----	----	----	40	----	96	1
Realty acquisition and									
disposal	768	----	----	----	----	13	13	94	38
Housing management	401	----	----	----	----	----	----	----	51
Building management	182	----	----	----	----	----	----	----	----
Mathematics and statistics	18,308	----	324	4,852	4,294	3,449	615	1,776	100
Actuary	49	----	----	----	----	6	----	9	----
Actuarial clerical	368	----	----	232	43	66	14	4	2
Mathematics	1,249	----	----	----	----	289	13	441	4
Statistics	2,038	----	----	----	----	175	2	376	7
Statistical clerical	9,750	----	----	3,236	3,130	2,094	405	493	77
Statistical coding	1,672	----	211	841	460	127	19	11	3
Statistical drafting	475	----	20	98	152	133	36	28	2
Cryptography	1,111	----	----	----	----	154	8	395	4
Cryptanalysis	411	----	----	3	104	228	67	6	----
Cryptographic clerical	1,185	----	93	442	405	177	51	13	1
Personnel administration and									
industrial relations	17,417	1	66	963	3,503	3,096	859	2,121	645
Personnel administration	5,774	----	----	----	----	1,120	456	900	350
Personnel research	266	----	----	----	----	20	1	44	1
Personnel clerical	1,005	1	56	421	2,212	235	35	15	2
Appointment and status									
changes	2,211	----	----	452	1,117	440	126	49	10

See footnotes at end of table.

Table C.--Grade distribution and average annual salary of full-time

Occupational series ^{1/}	Total	Grade							
		1	2	3	4	5	6	7	8
Placement	1,733	---	---	---	---	452	101	479	88
Qualifications rating	362	---	---	---	44	113	37	70	13
Test rating	110	---	10	50	33	12	---	3	1
Personnel rating examining	92	---	---	---	---	12	1	8	---
Position classification	1,963	---	---	---	---	401	31	314	128
Occupational analysis	177	---	---	---	---	27	2	57	3
Salary and wage									
administration	379	---	---	---	---	101	20	67	25
Employee relations	476	---	---	---	---	88	36	109	24
Conciliation and mediation	276	---	---	---	---	---	---	---	---
Apprenticeship									
representative	360	---	---	---	---	---	---	2	---
Retirement	233	---	---	40	97	75	13	4	---
Mechanic	11,176	26	66	233	528	1,289	1,777	3,017	298
Laboratory general mechanic....	1,510	24	31	109	232	309	381	320	16
Laboratory electronic									
mechanic	1,761	2	10	30	72	182	397	735	7
Automotive engine									
laboratory mechanic	2	---	---	---	---	1	1	---	---
Laboratory cabinetmaking	39	---	---	---	1	11	19	6	1
Laboratory electrician	727	---	---	31	47	61	148	217	1
Laboratory machinist	171	---	1	8	15	36	84	27	---
Ceramic working	5	---	---	1	1	---	1	1	---
Exhibits construction	113	---	---	2	2	6	13	30	2
Glassblowing	49	---	2	2	---	3	6	29	---
Glass working	13	---	1	2	3	5	2	---	---
Instrument making	405	---	8	9	16	26	93	130	6
Optical working	14	---	2	1	2	3	3	1	---
Plastic working	15	---	---	---	1	4	3	1	---
Textile working	11	---	---	---	7	---	1	1	---
Foundry	12	---	---	---	1	1	6	3	---
Pattern making	1	---	---	---	---	---	1	---	---
Tool and gage designing									
and construction	192	---	11	13	18	14	26	48	3
Construction and maintenance									
superintending	536	---	---	---	---	---	---	---	---
Building and ground									
superintendence	234	---	---	---	---	---	---	---	---
Mechanical shop									
superintendence	375	---	---	---	---	9	1	15	32
Fishery methods and									
equipment	9	---	---	---	---	4	---	---	---
Operating engineer	44	---	---	---	---	---	---	---	---
Motion picture projection	324	---	---	25	103	165	22	4	2
Equipment specialist	3,039	---	---	---	5	418	443	1,183	210
Electronics	995	---	---	---	2	31	126	266	18
Aircraft operation	580	---	---	---	---	---	---	---	---
Social science, psychology,									
and welfare	10,954	45	176	49	155	1,056	218	2,201	107
Social science	473	---	---	---	---	17	---	35	---
Social administration	321	---	---	---	---	8	---	10	---
General economics	208	---	---	---	---	22	---	19	2
Business economics	1,219	---	---	---	---	117	---	212	1
International trade and									
development economics	392	---	---	---	---	16	---	40	1
Fiscal and financial									
economics	217	---	---	---	---	10	2	19	1
Transportation economics	134	---	---	---	---	6	---	12	1
Labor economics	462	---	---	---	---	39	---	112	---
Agricultural economics	588	---	---	---	---	20	---	70	---
Forest economics	41	---	---	---	---	---	---	8	---
Foreign affairs	1,136	---	---	---	---	197	4	217	2
International relations	210	---	---	---	---	10	2	20	---
Intelligence research	336	---	---	---	---	26	---	49	---
Military intelligence									
research	894	---	---	---	---	69	1	154	4

See footnotes at end of table.

Grade							Not speci- fied	Average annual salary	Occupational series ^{1/}
9	10	11	12	13	14	15-18			
303	28	141	100	31	10	---	---	\$4,442	Placement
39	5	21	11	1	---	---	8	4,010	Qualifications rating
1	---	---	---	---	---	---	---	3,012	Test rating
18	---	27	19	7	---	---	---	5,448	Personnel rating examining
475	91	293	138	73	17	2	---	4,827	Position classification
34	---	24	19	9	2	---	---	4,878	Occupational analysis
									Salary and wage
70	16	38	20	15	4	3	---	4,658	administration
84	11	59	34	24	3	---	4	4,738	Employee relations
---	---	25	21	160	56	14	---	7,987	Conciliation and mediation
									Apprenticeship
192	---	97	48	5	11	5	---	5,597	representative
1	---	2	---	---	---	1	---	3,260	Retirement
2,241	295	725	374	231	35	8	33		Mechanic
75	---	8	1	3	1	---	---	3,628	Laboratory general mechanic
									Laboratory electronic
296	1	28	1	---	---	---	---	4,045	mechanic
									Automotive engine
---	---	---	---	---	---	---	---	3,581	laboratory mechanic
---	---	---	---	1	---	---	---	3,824	Laboratory cabinetmaking
211	---	11	---	---	---	---	---	4,113	Laboratory electrician
								3,644	Laboratory machinist
---	1	---	---	---	---	---	---	3,810	Ceramic working
32	1	13	8	---	---	---	4	4,600	Exhibits construction
4	---	3	---	---	---	---	---	4,065	Glassblowing
---	---	---	---	---	---	---	---	3,244	Glass working
93	4	17	1	1	---	---	1	4,161	Instrument making
2	---	---	---	---	---	---	---	3,540	Optical working
3	---	3	---	---	---	---	---	4,262	Plastic working
1	---	1	---	---	---	---	---	3,651	Textile working
1	---	---	---	---	---	---	---	3,882	Foundry
---	---	---	---	---	---	---	---	3,750	Pattern making
									Tool and gage designing
45	5	7	2	---	---	---	---	4,043	and construction
									Construction and maintenance
386	8	122	17	3	---	---	---	5,153	superintending
									Building and ground
98	18	75	39	4	---	---	---	5,529	superintendence
									Mechanical shop
110	63	83	37	25	---	---	---	5,407	superintendence
									Fishery methods and
3	---	2	---	---	---	---	---	4,387	equipment
13	---	6	1	---	---	---	24	5,223	Operating engineer
1	1	---	1	---	---	---	---	3,296	Motion picture projection
425	134	158	52	9	1	1	---	4,285	Equipment specialist
375	56	97	22	2	---	---	---	4,627	Electronics
67	3	91	192	183	33	7	4	6,894	Aircraft operation
									Social science, psychology,
1,681	35	1,711	1,505	973	602	416	24		and welfare
40	---	20	324	17	14	5	1	6,362	Social science
51	---	66	87	69	19	11	---	6,578	Social administration
22	---	25	41	28	27	17	5	6,643	General economics
171	---	183	212	158	98	67	---	6,072	Business economics
									International trade and
44	---	54	44	71	65	57	---	7,103	development economics
									Fiscal and financial
30	---	20	19	44	35	37	---	7,231	economics
21	---	16	33	23	13	4	5	6,431	Transportation economics
72	---	65	77	53	25	19	---	5,782	Labor economics
97	1	101	121	110	55	9	4	6,308	Agricultural economics
8	---	7	6	11	1	---	---	6,051	Forest economics
186	---	131	94	110	95	100	---	5,843	Foreign affairs
12	---	14	30	51	31	40	---	7,454	International relations
71	---	44	48	46	31	21	---	6,158	Intelligence research
									Military intelligence
194	3	152	150	99	52	16	---	5,739	research

Table C.--Grade distribution and average annual salary of full-time

Occupational series ^{1/}	Total	Grade							
		1	2	3	4	5	6	7	8
Military intelligence analysis	108	----	----	----	6	41	4	19	2
Geography	263	----	----	----	----	51	----	107	1
History	294	----	----	----	----	19	----	48	7
Psychology	968	----	----	----	----	28	----	81	----
Social work	1,445	----	----	----	1	17	42	834	53
Welfare work	451	45	176	20	40	55	92	13	----
Recreation	701	----	----	29	107	279	71	108	32
General anthropology	6	----	----	----	----	----	----	----	----
Anthropology aid	1	----	----	----	1	----	----	----	----
Physical anthropology	29	----	----	----	----	----	----	3	----
Archeology	38	----	----	----	----	9	----	10	----
Ethnology	5	----	----	----	----	----	----	1	----
Scientific linguistics	14	----	----	----	----	----	----	----	----
Education	8,172	----	----	----	----	2,293	248	3,034	150
Education and training	5,631	----	----	----	----	1,959	118	2,159	63
Training administration instruction	2,138	----	----	----	----	330	129	842	87
Educational research and consultation	403	----	----	----	----	4	1	33	----
Fine and applied arts	5,278	5	189	440	577	868	671	756	136
Fine and applied arts	103	----	3	----	2	22	2	36	1
Art administration	19	----	----	----	----	5	1	5	----
Illustrating	1,436	----	31	93	155	339	269	282	32
Architecture	821	----	----	----	----	32	1	72	1
Landscape architecture	264	----	----	----	----	10	----	18	----
Musical technician	22	----	----	4	8	4	1	3	1
Photography	2,196	5	151	329	390	411	383	284	87
Motion picture production	409	----	4	13	22	43	14	55	14
Motion picture acting	1	----	----	----	----	----	----	1	----
Radio production	1	----	----	----	----	----	----	----	----
Engraving	4	----	----	1	----	2	----	----	----
Steel plate engraving superintendence	2	----	----	----	----	----	----	----	----
Library and archives	3,054	9	119	359	369	671	45	789	11
Library	1,719	----	----	----	----	452	26	695	10
Library assistant	844	9	116	283	328	90	10	5	----
Archives	273	----	----	----	----	50	----	79	1
Archives assistant	218	----	3	76	41	79	9	10	----
Veterinary science	1,864	----	----	----	----	73	100	471	----
Veterinary livestock inspection	978	----	----	----	----	----	96	305	----
Veterinary meat inspection	513	----	----	----	----	----	4	84	----
Veterinary	317	----	----	----	----	71	----	73	----
Veterinary virus serum inspection	56	----	----	----	----	2	----	9	----
Copyright, patent, and trade-mark	1,164	----	----	----	----	76	----	99	1
Copyright examining	6	----	----	----	----	5	----	----	----
Patent administration	16	----	----	----	----	----	----	----	----
Patent adviser	171	----	----	----	----	----	----	10	1
Patent attorney	5	----	----	----	----	----	----	----	----
Patent classifying	35	----	----	----	----	----	----	----	----
Patent examining	835	----	----	----	----	64	----	88	----
Patent interference examining	8	----	----	----	----	----	----	----	----
Design patent examining	22	----	----	----	----	6	----	1	----
Trade-mark classifying	8	----	----	----	----	1	----	----	----
Trade-mark examining	55	----	----	----	----	----	----	----	----
Trade-mark interference examiner	3	----	----	----	----	----	----	----	----

See footnotes at end of table.

Table C.--Grade distribution and average annual salary of full-time

Occupational series ^{1/}	Total	Grade							
		1	2	3	4	5	6	7	8
Miscellaneous occupations, n.e.c.	11,326	----	471	1,080	1,731	1,945	704	1,215	276
Prison administration	925	----	----	----	76	182	138	246	67
Institution management	3	----	----	----	----	----	----	----	----
Information and editorial	6,609	----	----	814	1,184	938	325	788	150
Bond sales promotion	312	----	----	----	----	2	----	1	----
Information receptionist and tour leader	129	----	20	35	32	11	18	8	1
Community and regional planning	25	----	----	----	----	1	----	1	----
Translator	400	----	----	----	24	43	56	77	44
Clerk-translator	53	----	----	----	45	6	2	----	----
Interpreter	72	----	----	----	----	13	20	19	2
Museum	49	----	----	----	----	1	3	10	----
Museum aid	62	----	8	7	12	22	5	7	----
Funeral directing	11	----	----	----	----	----	3	3	2
Chaplain	276	----	----	----	----	----	----	----	----
Document examining	2	----	----	----	----	----	----	1	1
Fingerprint identification	1,197	----	442	222	271	149	89	5	4
Security administration	133	----	----	----	----	----	----	----	----
Fire fighting and fire prevention	193	----	----	----	----	----	----	----	----
Field deputy marshall	543	----	----	1	6	525	10	----	----
Automotive traffic control	17	----	----	1	2	7	4	2	----
Marine superintendent	315	----	1	----	79	45	31	47	5

^{1/} The designations used in the stub of the table are from the Handbook of Occupational Groups and Series of presented in descending size order according to 1951 employment. Within these groups, the series are Source: Tabulations furnished by U. S. Civil Service Commission.

Grade							Not speci- fied	Average annual salary	Occupational series ^{1/}
9	10	11	12	13	14	15-18			
1,041	233	1,144	710	435	224	89	28		Miscellaneous occupations, n.e.c.
79	42	45	23	15	12	---	---	\$4,244	Prison administration
1	---	1	---	1	---	---	---	6,164	Institution management
624	56	594	515	343	181	79	18	4,497	Information and editorial
19	2	128	92	46	18	4	---	6,508	Bond sales promotion
---	---	---	---	---	---	---	4	3,130	Information receptionist and tour leader
1	---	5	3	7	3	2	2	7,150	Community and regional planning
49	57	36	11	1	1	---	1	4,466	Translator
---	---	---	---	---	---	---	---	3,153	Clerk-translator
3	1	9	4	1	---	---	---	4,328	Interpreter
16	---	6	3	5	3	2	---	5,616	Museum
1	---	---	---	---	---	---	---	3,304	Museum aid
2	1	---	---	---	---	---	---	4,341	Funeral directing
9	---	260	4	2	1	---	---	5,713	Chaplain
---	---	---	---	---	---	---	---	4,299	Document examining
4	8	2	---	---	1	---	---	2,982	Fingerprint identification
43	18	30	28	8	4	2	---	5,898	Security administration
---	---	---	---	---	---	---	---	---	Fire fighting and fire prevention
137	23	13	16	1	---	---	3	5,160	Field deputy marshall
1	---	---	---	---	---	---	---	3,371	Automotive traffic control
---	1	---	---	---	---	---	---	3,587	Marine superintendent
52	24	15	11	5	---	---	---	4,159	

Classes, published by the U. S. Civil Service Commission. The major occupational groups are arranged according to the code order given in the Handbook.